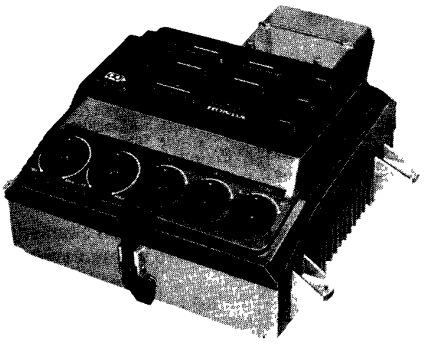
ORDER NO AD9009229A2

Service Manual

INTEGRATED AUDIO SYSTEM
CUSTOM-MADE FOR HONDA

Car Audio

RM-G30EAG
RM-G30GAG



Color

(H)	Gray Type

Area

Country Code	Model No	Areas	Color
(E)	RM-G30EAG	Continental Europe	(H)
(EG)	RM-G30GAG	F R Germany	

•This service manual includes the Schematic Diagram, Circuit Board Diagram Wiring Connection Diagram, Measurements and Adjustments, Cabinet Parts Location and Parts list which have been changed from the RM-G30PAG Service Manual
Other items are described in the RM-G30PAG Service Manual (Order No AD8912354C1)

RM-G30 MECHANISM SERIES (AR700)

■ SPECIFICATIONS

General

Power Source	DC, 12 V (Negative Ground only)
Power Consumption	8A at maximum power output (Memory back-up 1 5 mA)
Power Output	Head set, 1 W (8Ω/ch) Main amp, 24 W (3Ω/ch)
Dimensions	258 (W)×87 5 (H)×315 (D) mm
Weight	2 56 kg without bracket

FM Tuner Section:

Frequency Range	FM, 87 5~108 MHz
Usable Sensitivity	10 dB (S/N 30 dB)
Signal to Noise Ratio	55 dB
Stereo Separation	35 dB at 1 kHz
THD	0 5%
IF Frequency	10 7 MHz

AM Tuner Section

Frequency Range	AM, 522~1620 kHz
Usable Sensitivity	30 dB (S/N 20 dB)
Selectivity	50 dB (±10 kHz)
Intern iiate Frequency	450 kHz

Cassette Deck Section:

Tape System	Auto-reverse
Stereo Separation	35 dB at 1 kHz
Track System	4-track 2 channel stereo playback

Intercom Section.

Mic Input Impedance	200Ω
Head set Output	1 W (8Ω/ch)

AF Section.

Auto volume level	+8~+16 dB
Tone volume level	+8~−8 dB

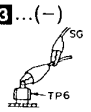
Weights and dimensions shown are approximate
Design and specifications are subject to change without notice

HONDA/Panasonic

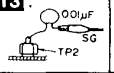
MEASUREMENTS AND ADJUSTMENTS

1. Set power switch/volume control to on/center.
2. Set intercom switch/volume control to off/min.
3. Set intercom mute level control to center.
4. Set AVC to center.
5. Set tone control to center.
6. Set HS/SP select switch to SP.
7. Set ambience switch to OFF.
8. Set band switch to AM or FM.
9. Set power source voltage to 14 V DC.

■ AM ADJUSTMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR		FREQUENCY DISPLAY SETTING	ELECTRONIC AC VOLTMETER or OSCILLOSCOPE	ADJUSTMENT	REMARKS
		CONNECTIONS	FREQUENCY				
	AM-IF ADJUSTMENT						
(1)	AM	TP6 ...(+) TP13 ...(−) 	450 kHz 30% Mod. at 400 Hz	Point of non-interference. (on/ about 600 kHz)	TP7 ...(+) TP13 ...(−)	T6 (AM 1st IFT) T7 (AM 2nd IFT)	Adjust for maximum output.
	BAND	AM SIGNAL GENERATOR		FREQUENCY DISPLAY SETTING	ELECTRONIC DC or AC VOLTMETER	ADJUSTMENT	REMARKS
		CONNECTIONS	FREQUENCY				
	AM-RF ADJUSTMENT						
(2)	AM	Disconnect	No signal applied	522 kHz (CH1)	TP1 ...(+) TP13 ...(−)	——	Check for 1.2~1.6 V reading on DC voltmeter.
(3)		Disconnect	No signal applied	1620 kHz (CH5)	TP1 ...(+) TP13 ...(−)	——	Check for 6.6~7.8 V reading on DC voltmeter.
(4)		Connect to antenna socket through AM RF dummy antenna. (Refer to Fig. 2)	603 kHz	603 kHz (CH2)	TP1 ...(+) TP13 ...(−)	T4 (AM ANT 1st) T5 (AM ANT 2nd)	Adjust for maximum reading on AC voltmeter.
(5)		Repeat steps (2) to (4)					
	BAND	AM SIGNAL GENERATOR		FREQUENCY DISPLAY SETTING	OSCILLOSCOPE	ADJUSTMENT	REMARKS
		CONNECTIONS	FREQUENCY				
	AM-NOISE BRANKER ADJUSTMENT						
(6)	AM	Connect to antenna socket through AM RF dummy antenna. (Refer to Fig. 2)	603 kHz (400 Hz, 0% Mod. 74 dB)	603 kHz (CH 2)	TP8 ...(+) TP14 ...(−)	T8 (AM NB)	Adjust for maximum wave on the oscilloscope.

■ FM ADJUSTMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR		FREQUENCY DISPLAY SETTING	ELECTRONIC AC VOLTMETER or OSCILLOSCOPE	ADJUSTMENT	REMARKS
		CONNECTIONS	FREQUENCY				
	FM-IF ADJUSTMENT						
(1)	FM	High side thru. 0.01μF to test point TP2. Negative side to test point TP13. 	10.7 MHz SWEEP	Point of non-interference. (on/ about 90 MHz)	Connect vert. amp. of scope to test point TP5. Negative side to test point TP14.	T1 (FM 1st IFT)	Waveform is shown in Fig. 4
(2)	FM	〃	〃	〃	〃	T2 (FM 2nd IFT, DC Balance NB)	Waveform is shown in Fig. 5

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR		FREQUENCY DISPLAY SETTING	ELECTRONIC DC VOLTMETER or OSCILLOSCOPE	ADJUSTMENT	REMARKS
		CONNECTIONS	FREQUENCY				
(3)	FM	Antenna socket (FM RF Dummy Fig. 3)	90.1 MHz or 106.1 MHz (400 Hz 30%)	90.1 MHz (CH2) or 106.1 MHz (CH4)	TP3 ...(+) TP13 ...(−)	T2 (FM 2nd IFT, DC Balance NB)	Adjust for 0±50 mV reading on DC voltmeter.
	FM STATION DETECTOR ADJUSTMENT						
(4)	FM	〃	98.1 MHz (0% Mod. 60 dB)	98.1 MHz (CH3)	TP11 ...(+) TP13 ...(−)	VR10 T10	1. Set VR10 for center. 2. Adjust T10 for minimum reading on DC voltmeter. 3. Adjust VR10 for 3.1±0.1 V reading on DC voltmeter.
(5)	FM	〃	98.1 MHz (0% Mod. 60 dB)	98.1 MHz (CH3)	TP12 ...(+) TP13 ...(−)	VR10	Adjust for 4±0.2 V reading on DC voltmeter.
	BAND	FM SIGNAL GENERATOR		FREQUENCY DISPLAY SETTING	ELECTRONIC DC VOLTMETER	ADJUSTMENT	REMARKS
		CONNECTIONS	FREQUENCY				
	FM-RF ADJUSTMENT						
(6)	FM	Disconnect	No signal applied	87.5 MHz (CH1)	TP1 ...(+) TP13 ...(−)	L6 (FM OSC Coil)	Adjust for 1.0±0.05 V reading on DC voltmeter.
(7)		Disconnect	No signal applied	108 MHz (CH5)	TP1 ...(+) TP13 ...(−)	CT4 (FM OSC Trimmer)	Adjust for 8±0.1 V reading on DC voltmeter.
(8)		Repeat steps (6) and (7)					
(9)		Antenna socket (FM RF Dummy Fig. 3)	90.1 MHz (400 Hz 30%)	90.1 MHz (CH2)	TP1 ...(+) TP13 ...(−)	L1 (FM ANT 1st) L4 (FM ANT 2nd) L5 (FM ANT 3rd)	Adjust for maximum reading on AC voltmeter.
(10)	FM	〃	106.1 MHz (400 Hz 30%)	106.1 MHz (CH4)	TP1 ...(+) TP13 ...(−)	CT1 (FM ANT 1st) CT2 (FM ANT 2nd) CT3 (FM ANT 3rd)	〃
(11)		Repeat steps (9) and (10)					
	BAND	FM SIGNAL GENERATOR		FREQUENCY DISPLAY SETTING	DC VOLTMETER (center "0")	ADJUSTMENT	REMARKS
		CONNECTIONS	FREQUENCY				
	DC BALANCE AND FM NOISE BRANKER ADJUSTMENT						
(12)	FM	Antenna socket	90.1 MHz (400 Hz, 30% Mod, 60 dB)	90.1 MHz	TP3 ...(+) TP4 ...(−)	T2 (FM 2nd IFT, DC Balance NB)	Adjust T2 for −0.05~ +0.05 V reading on DC voltmeter.

	BAND	SIGNAL GENERATOR	FREQUENCY COUNTER	ELECTRONIC AC VOLTMETER	ADJUSTMENT	REMARKS
	FM SEPARATION ADJUSTMENT (Intercom power switch to off)					
(13)	FM	90.1 MHz (400 Hz, 30% Mod, 74 dB)	——	TP17 ...Lch (+) TP15 ...Rch (+) TP16 ...(−)	VR1 (Separation)	Make adjustment so that when the antenna input is subjected to **L** modulation (or **R** modulation.) **R** channel output (or **L** channel output) becomes minimum.

■ AVC GAIN ADJUSTMENT

	FM SIGNAL GENERATOR		FREQUENCY DISPLAY SETTING	OSCILLOSCOPE	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
(14)	Connect to antenna socket through FM RF dummy antenna. (Refer to Fig. 3)	90.1 MHz (1 kHz, 30% Mod, 60 dB)	90.1 MHz (CH2)	TP15 ...(+) TP16 ...(−)	VR304	•AVC Volume...Center •Tone Volume...Center •Adjust VR304 for 0 Hz (0 dB)→ 100 Hz (5±0.5 dB) reading on pulse.

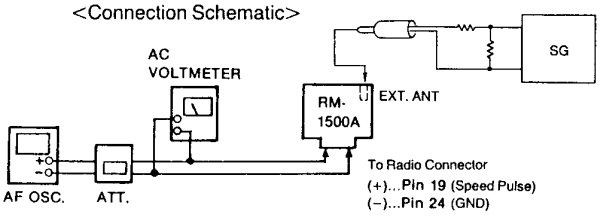
Adjustment and Connection Procedures

<Adjustment Procedures>

1. Set the AVC VR (VR304) to the center position.
2. Adjust the VR for the volume adjustment so that the output of the speaker is 50 mW (0.4 V/3Ω). At this time, the output level should measure 0 dB.
3. Set the AF Oscillator's output to 100 Hz, 5 Vp-p and send it to the connector.

4. Adjust the VR304 when the speaker's output has a value of 5 dB ± 0.5 dB.

<Connection Schematic>



***Tape deck adjustment is described in the RM-G30PAG Service Manual (Oder No. AD8912354C1).**

■ ALIGNMENT POINT

•Please refer to Circuit Board and Wiring Connection Diagram for test point locations.

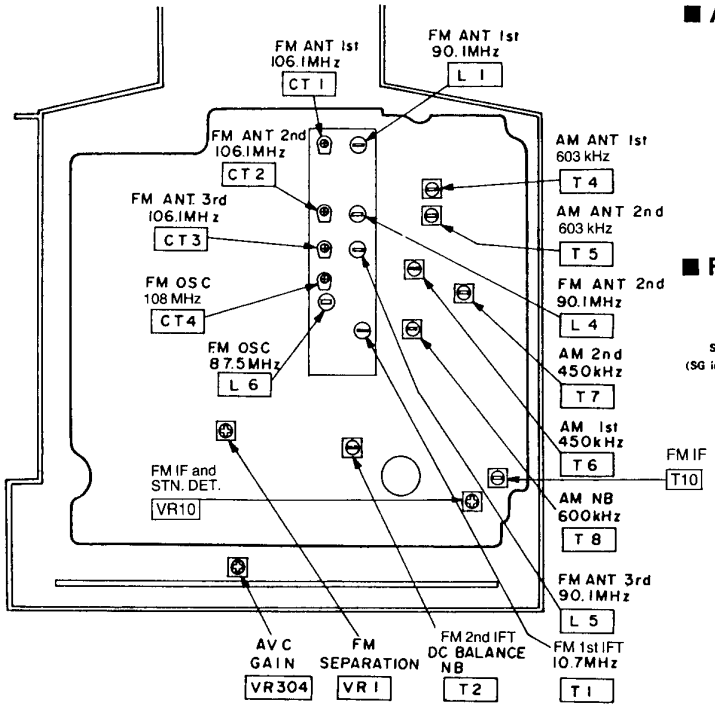

FM ANT 1st 106.1MHz CT1
FM ANT 1st 90.1MHz L1
FM ANT 2nd 106.1MHz CT2
FM ANT 3rd 106.1MHz CT3
FM OSC 108 MHz CT4
FM OSC 87.5MHz L6
FM IF and STN. DET. VR10
AM ANT 1st 603 kHz T4
AM ANT 2nd 603 kHz T5
FM ANT 2nd 90.1MHz L4
AM 2nd 450kHz T7
AM 1st 450kHz T6
FM IF T10
AM NB 600kHz T8
FM ANT 3rd 90.1MHz L5
AVC GAIN VR304
FM SEPARATION VR1
FM 2nd IFT DC BALANCE NB T2
FM 1st IFT 10.7MHz T1

Fig. 1

■ AM RF DUMMY ANTENNA

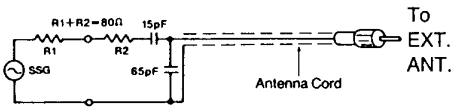


Fig. 2

■ FM RF DUMMY ANTENNA

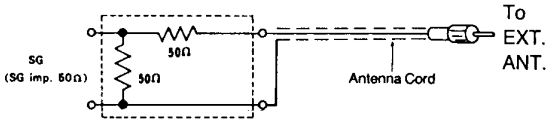


Fig. 3

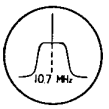


Fig. 4

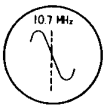


Fig. 5

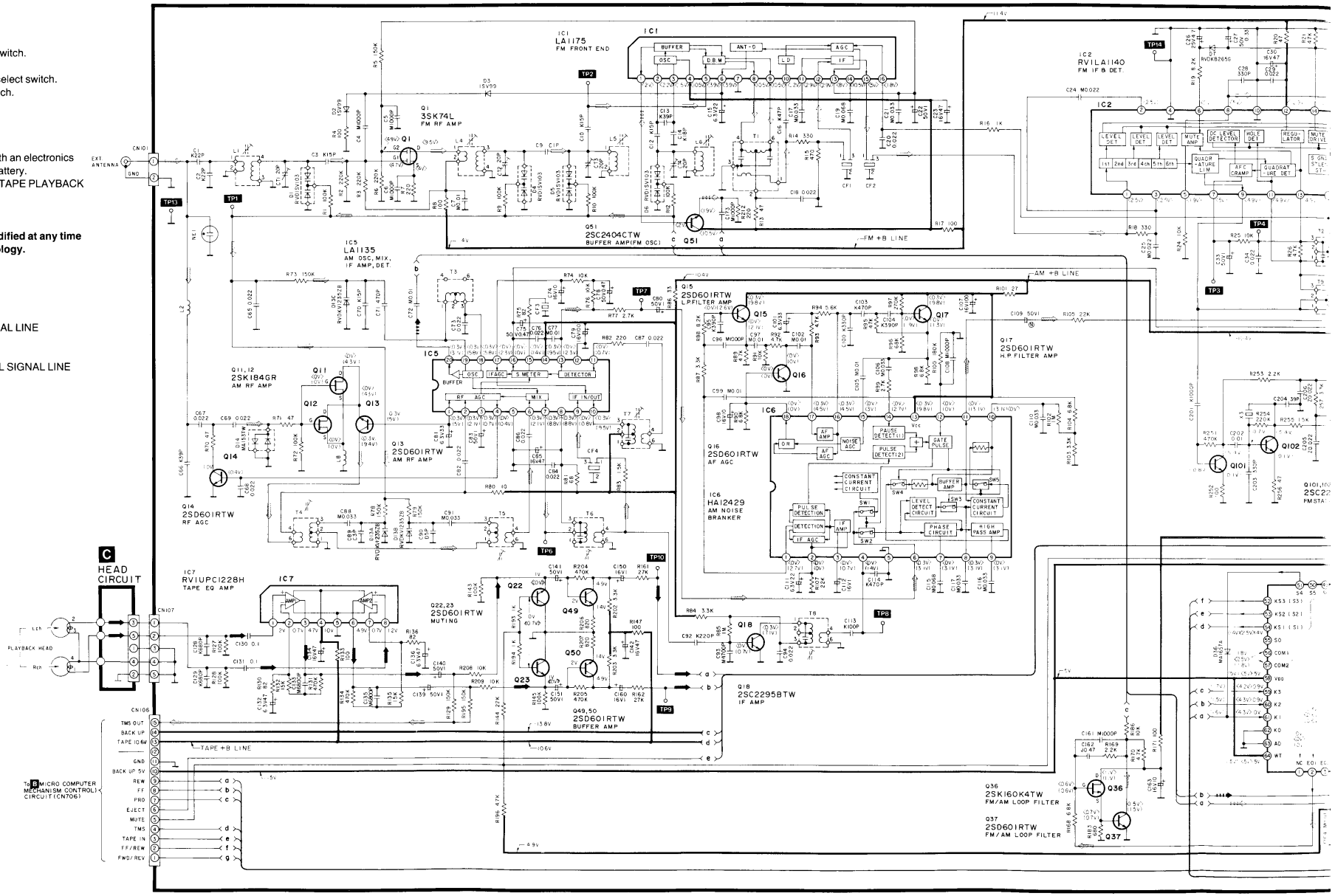
■ SCHEMATIC DIAGRAM ●MAIN/HEAD/OPERATION SWITCH CIRCUIT

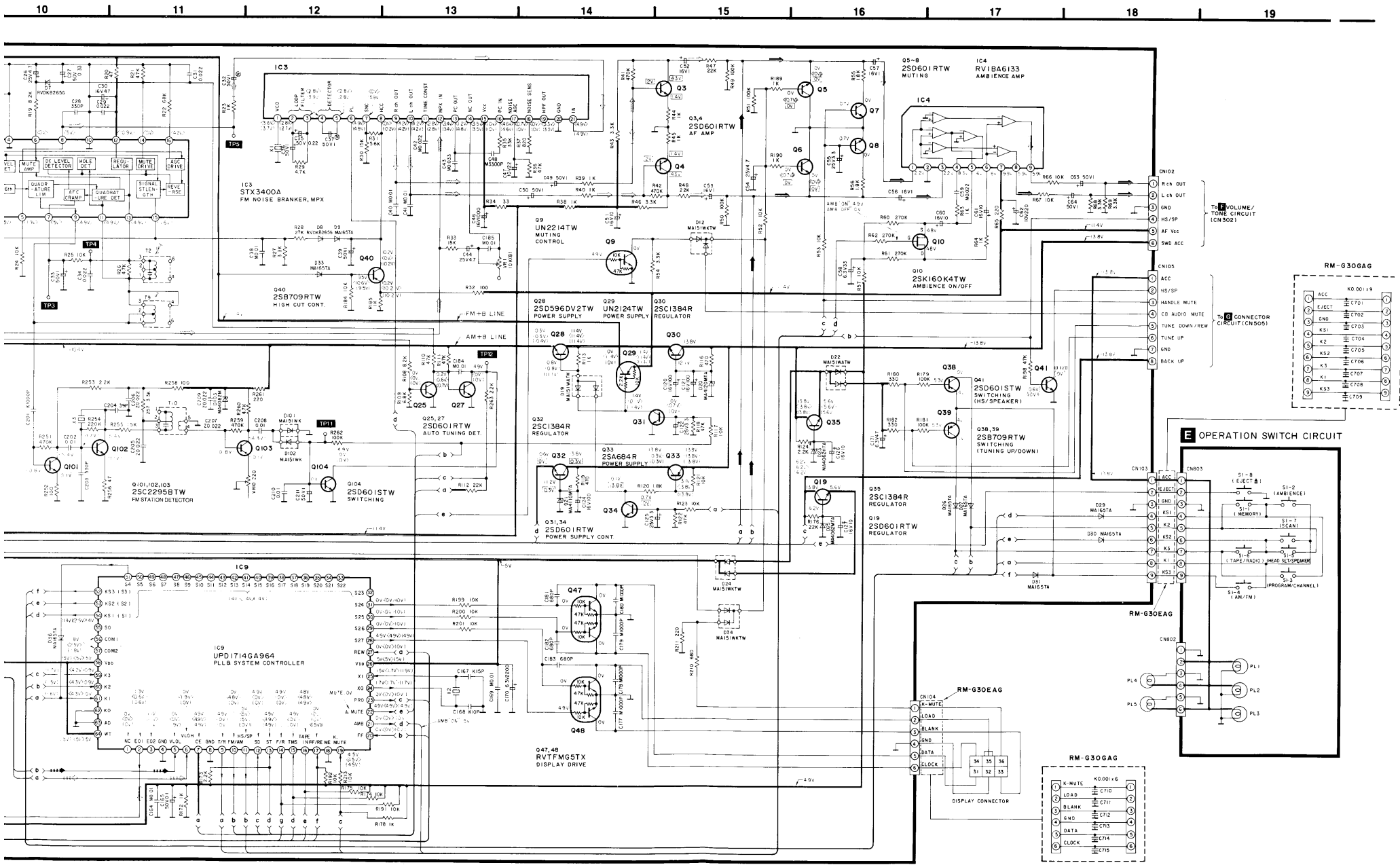
Notes:

1. S1 : S1-1; Memory switch.
   S1-2; Ambience switch.
   S1-3; Program/Channel switch.
   S1-4; Band switch.
   S1-5; Head set/Speaker select switch.
   S1-6; Function select switch.
   S1-7; Scan switch.
   S1-8; Eject switch.
2. VR1 : FM VCO adjustment VR.
   VR10 : FM SD adjustment VR.
3. DC voltage measurement is taken with an electronics voltmeter from negative terminal of battery.
   No mark ..... TAPE PLAYBACK
4. The mark (■) shows test point, e.g.
   TP1 =test point 1.

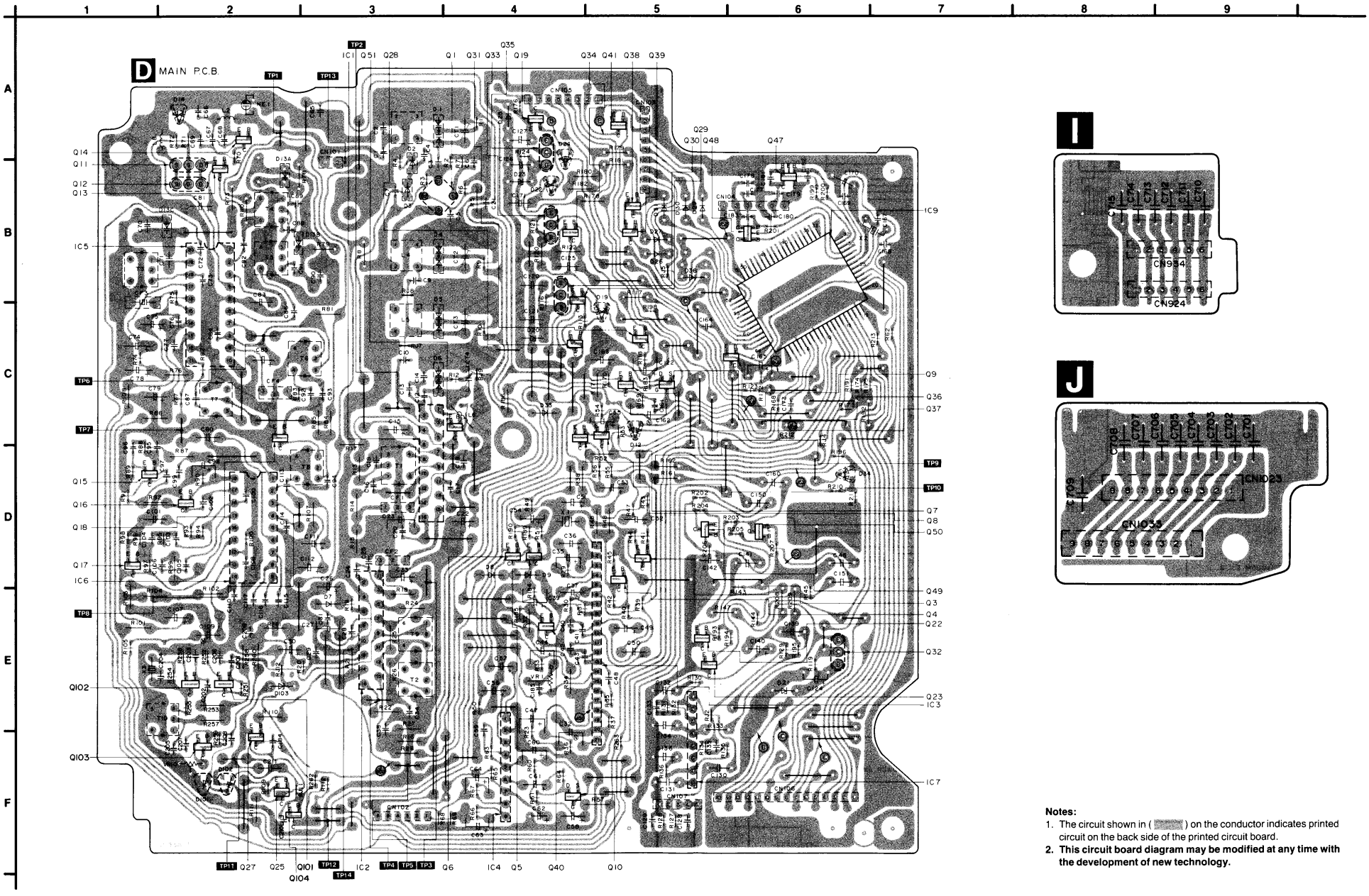
●This schematic diagram may be modified at any time with the development of new technology.

- ..... FM SIGNAL LINE
- ..... AM SIGNAL LINE
- ..... AM OSC SIGNAL LINE
- ..... FM OSC SIGNAL LINE
- ..... TAPE PLAYBACK SIGNAL LINE
- ..... TMS SIGNAL LINE
- ..... MAIN SIGNAL LINE
- ..... FM/AM V-cap CONTROL SIGNAL LINE
- ..... +B LINE




10
11
12
13
14
15
16
17
18
19
IC3
STX3400A
FM NOISE BRANKER, MPX
IC4
RV1BA6133
AMBIENCE AMP
Q5~8
2SD601RTW
MUTING
Q3,4
2SD601RTW
AF AMP
Q9
UN2214TW
MUTING CONTROL
Q10
2SK160K4TW
AMBIENCE ON/OFF
Q40
2SB709RTW
HIGH CUT CONT.
Q28
2SD596DV2TW
POWER SUPPLY
Q29
UN2124TW
POWER SUPPLY
Q30
2SC1384R
REGULATOR
Q32
2SC1384R
REGULATOR
Q33
2SA684R
POWER SUPPLY
Q31,34
2SD601RTW
POWER SUPPLY CONT
Q35
2SC1384R
REGULATOR
Q19
2SD601RTW
REGULATOR
Q101,102,103
2SC2295BTW
FM STATION DETECTOR
Q104
2SD601STW
SWITCHING
Q25,27
2SD601RTW
AUTO TUNING DET.
Q41
2SD601STW
SWITCHING
(HS/SPEAKER)
Q38,39
2SB709RTW
SWITCHING
(TUNING UP/DOWN)
Q47,48
RVTFMG5TX
DISPLAY DRIVE
IC9
UPD1714GA964
PLL& SYSTEM CONTROLLER
FM+B LINE
AM+B LINE
CN102
CN105
CN103
CN104
CN803
CN802
To V VOLUME/ TONE CIRCUIT (CN302)
To G CONNECTOR CIRCUIT (CN505)
RM-G30GAG
RM-G30EAG
E OPERATION SWITCH CIRCUIT
DISPLAY CONNECTOR
TP1
TP2
TP3
TP4
TP5

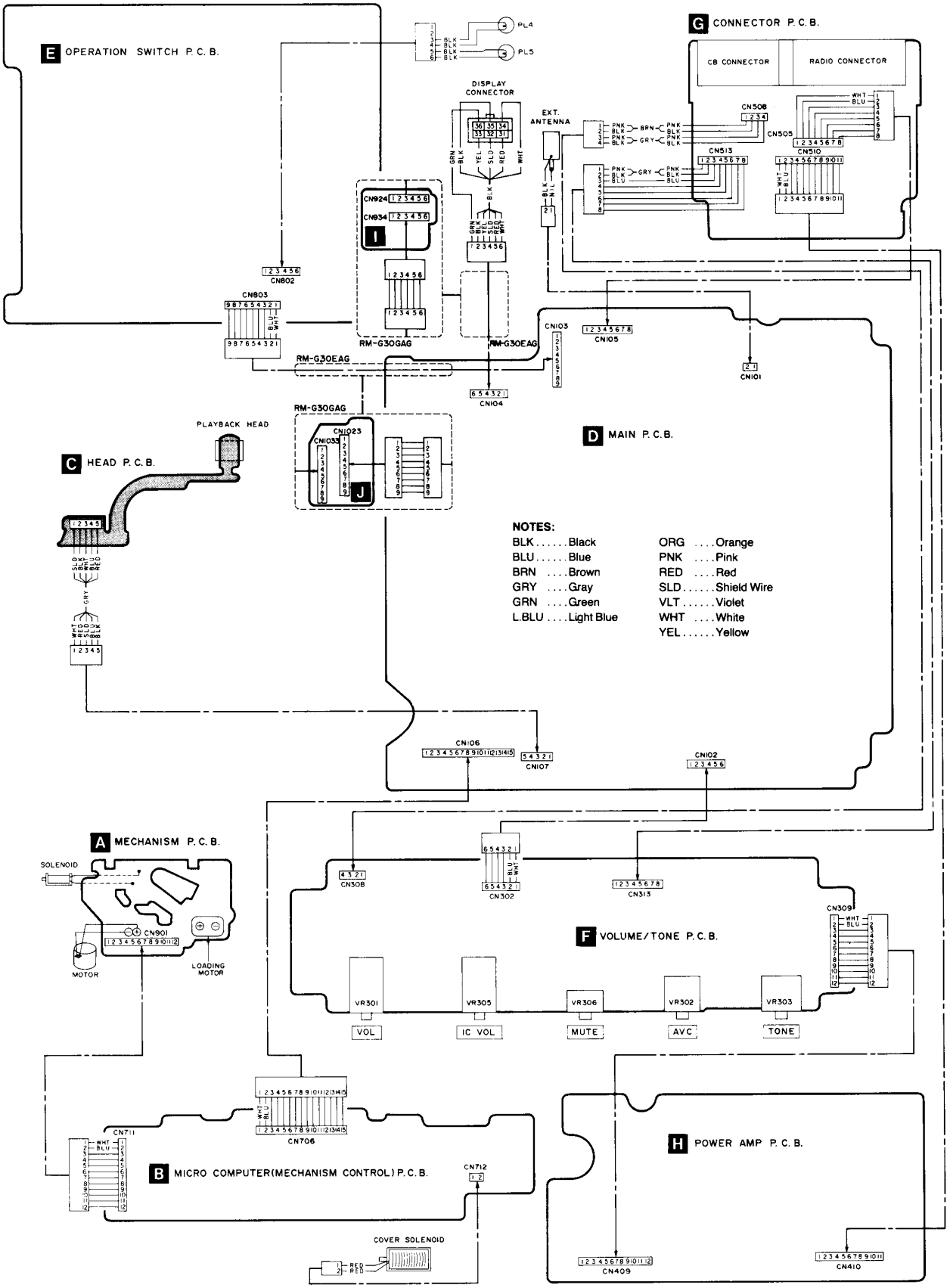
■ CIRCUIT BOARD DIAGRAM



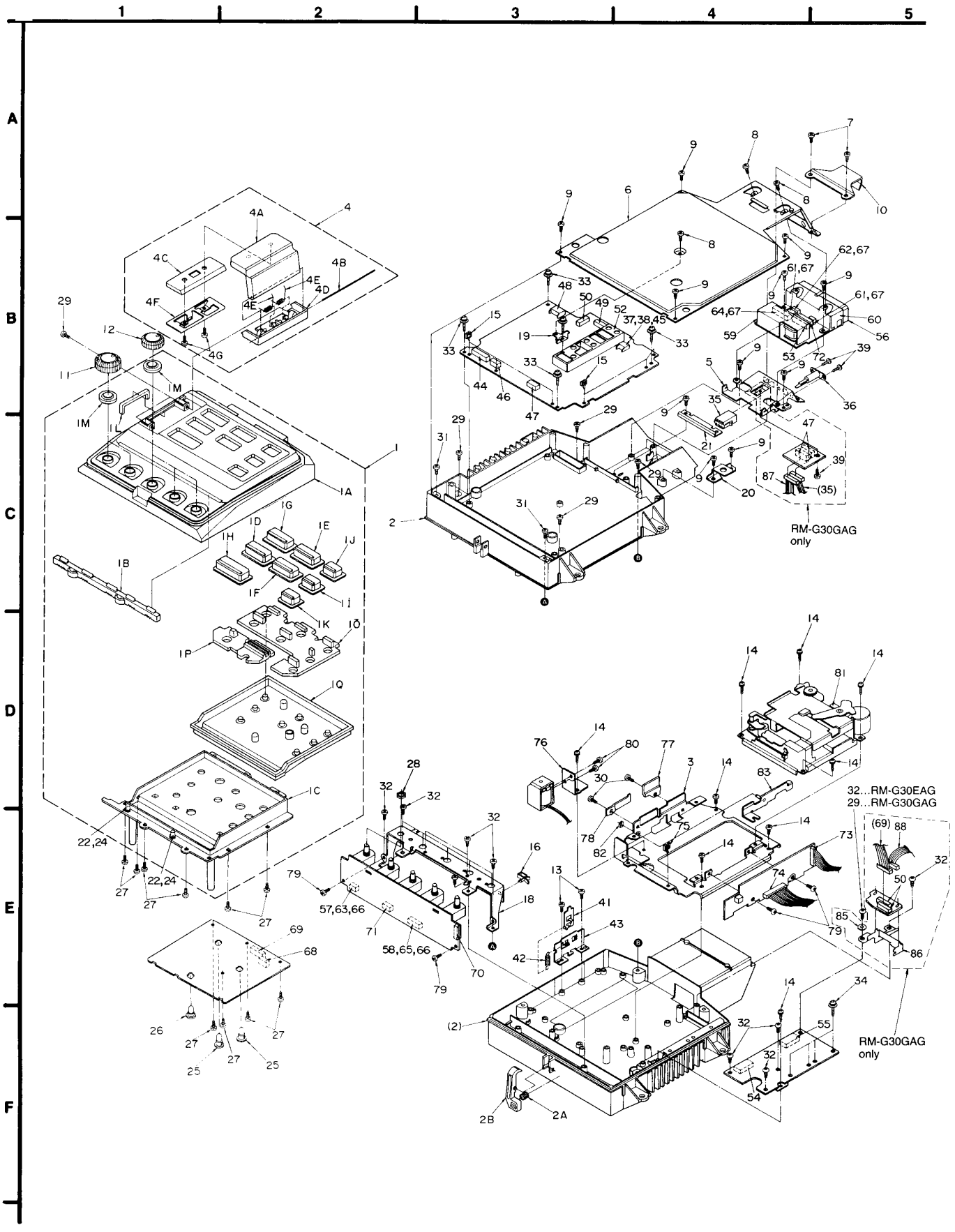
Notes:

1. The circuit shown in ( ) on the conductor indicates printed circuit on the back side of the printed circuit board.
2. **This circuit board diagram may be modified at any time with the development of new technology.**

WIRING CONNECTION DIAGRAM



■ CABINET PARTS LOCATION



■ REPLACEMENT PARTS LIST

•Included Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		TRANSISTORS	
Q101	2SC2295BTW	TRANSISTOR	
Q102	2SC2295BTW	TRANSISTOR	
Q103	2SC2295BTW	TRANSISTOR	
Q104	2SD601RTW	TRANSISTOR	
		DIODES	
D36	MA165TA	DIODE	
D101	MA151WKTW	DIODE	
D102	MA151WKTW	DIODE	
D103	MA4082MTA	DIODE	
		VARIABLE RESISTOR	
VR10	EVND1AA00B22	V. R	
		TRANSFORMER	
T10	RLI2A16	TRANSFORMER	
		OSCILLATOR	
X3	RVCX10240Q4Z	OSCILLATOR	
		RESISTORS	
R251	ERJ6GEYJ474V	RESISTOR 1/10W 470K	RM-G30GAG ONLY
R252	ERJ6GEYJ101V	RESISTOR 1/10W 100	RM-G30GAG ONLY
R253	ERDS2TJ222T	RESISTOR 1/4W 2.2K	RM-G30GAG ONLY
R254	ERJ6GEYJ274V	RESISTOR 1/10W 270K	RM-G30GAG ONLY
R255	ERJ6GEYJ152V	RESISTOR 1/10W 1.5K	RM-G30GAG ONLY
R256	ERJ6GEYJ470V	RESISTOR 1/10W 47	RM-G30GAG ONLY
R257	ERDS2TJ332T	RESISTOR 1/4W 100	RM-G30GAG ONLY

Ref. No.	Part No.	Part Name & Description	Remarks
R258	ERJ6GEYJ470V	RESISTOR 1/10W 47	RM-G30GAG ONLY
R259	ERJ6GEYJ474V	RESISTOR 1/10W 470K	RM-G30GAG ONLY
R260	ERDS2TJ472T	RESISTOR 1/4W 4.7K	RM-G30GAG ONLY
R261	ERDS2TJ221T	RESISTOR 1/4W 220	RM-G30GAG ONLY
R262	ERJ6GEYJ104V	RESISTOR 1/10W 100K	RM-G30GAG ONLY
R263	ERJ6GEYJ222V	RESISTOR 1/10W 2.2K	RM-G30GAG ONLY
		CHIP JUMPERS	
RJ11	ERJ6GEY0R00V	CHIP JUMPER	RM-G30GAG ONLY
RJ12	ERJ6GEY0R00V	CHIP JUMPER	RM-G30GAG ONLY
		CAPACITORS	
C201	ECUV1H102MBN	CAPACITOR 50V 1000P	RM-G30GAG ONLY
C202	ECUV1E103MBN	CAPACITOR 25V 0.01U	RM-G30GAG ONLY
C203	ECUV1H331KN	CAPACITOR 50V 330P	RM-G30GAG ONLY
C204	ECUV1H390KCN	CAPACITOR 50V 39P	RM-G30GAG ONLY
C205	ECUV1E223ZFN	CAPACITOR 25V 0.022U	RM-G30GAG ONLY
C206	ECUV1E223ZFN	CAPACITOR 25V 0.022U	RM-G30GAG ONLY
C207	ECUV1E223ZFN	CAPACITOR 25V 0.022U	RM-G30GAG ONLY
C208	ECUV1E103MBN	CAPACITOR 25V 0.01U	RM-G30GAG ONLY
C209	ECUV1E223ZFN	CAPACITOR 25V 0.022U	RM-G30GAG ONLY
C210	ECUV1E103MBN	CAPACITOR 25V 0.01U	RM-G30GAG ONLY
C211	ECEA1HKN010B	CAPACITOR 50V 1U	RM-G30GAG ONLY
		CABINET PARTS	
85	XWA3B	WASHER	RM-G30GAG ONLY
86	REP0889A	ANGLE	RM-G30GAG ONLY
87	5JSA-1	CABLE ASS'Y	RM-G30GAG ONLY
88	5JSA-2	CABLE ASS'Y	RM-G30GAG ONLY

•Discontinued Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		DIODE	
D37	MA165TA	DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks
		CHIP JUMPER	
RJ1	ERJ6GEY0R00V	CHIP JUMPER	

•Changed Parts List

Ref. No.	Part Number		Description	Remarks
	RM-G30PAG (Original)	**RM-G30EAG/GAG**		
FILTER				
CF1	RVFSFE107MSR	**RVF107SNMR**	FILTER	
CF2	RVFSFE107MSR	**RVF107SNMR**	FILTER	
CABINET PARTS				
2	RFKKMG30PAG	**RFKKMG30EAG**	CHASSIS ASS'Y	RM-G30EAG only
		RFKKMG30GAG		RM-G30GAG only
5	RFKNMG30PAGB	**RWE1M1500EZG**	CONNECTOR ANGLE ASS'Y	RM-G30GAG only
69	3JSA1500AZA	**6JSA1500EZA**	SOCKET ASS'Y	RM-G30GAG only

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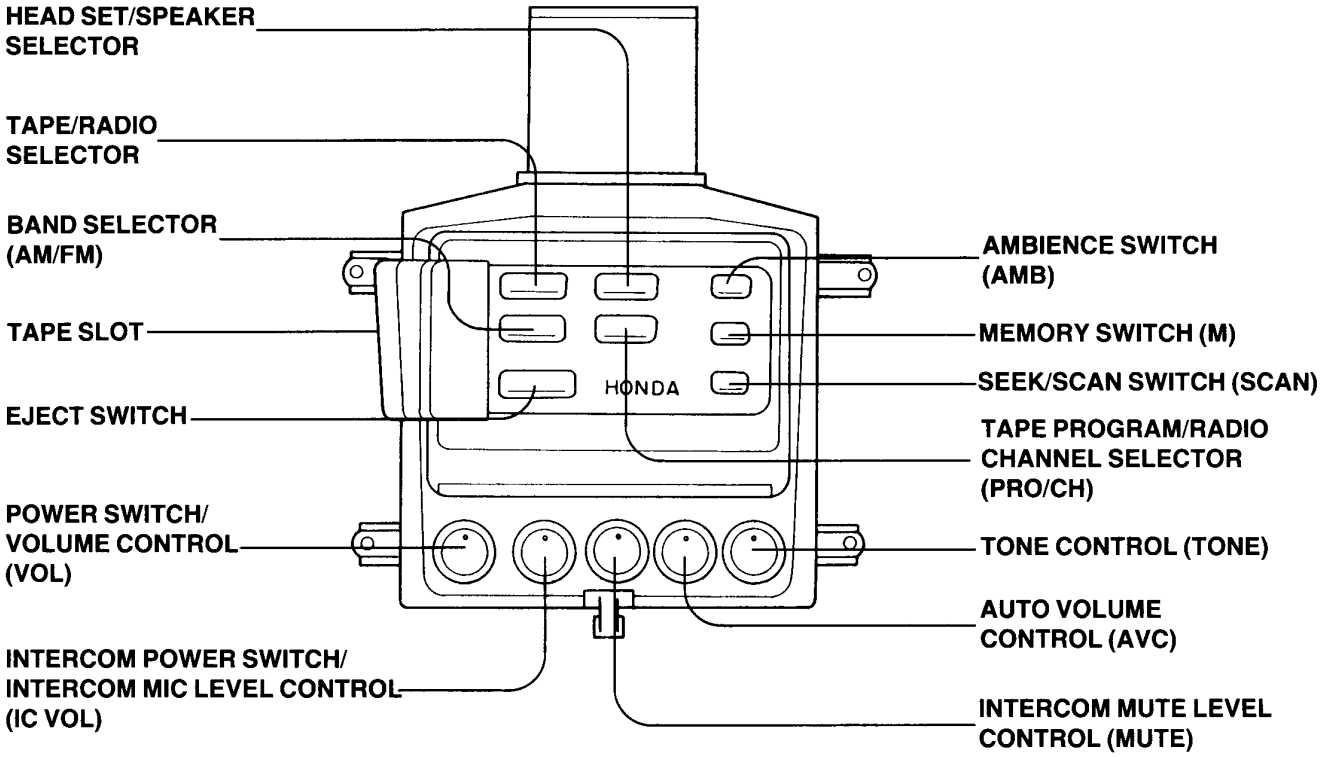
LOCATION OF CONTROLS



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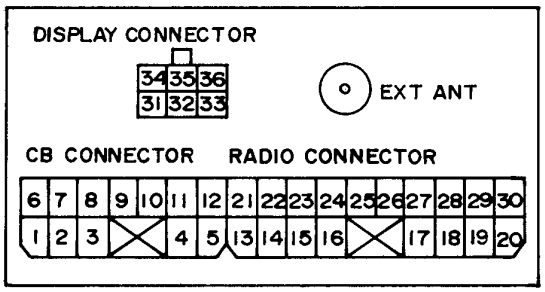


■ CB CONNECTOR

1. NOT USED
2. CB AF HS
3. CB AF SP
4. NOT USED
5. NOT USED
6. CB ON
7. CB AF E
8. HS/SP
9. CB AUDIO MUTE
10. GND OUT
11. CB MIC OUT
12. CB MIC E

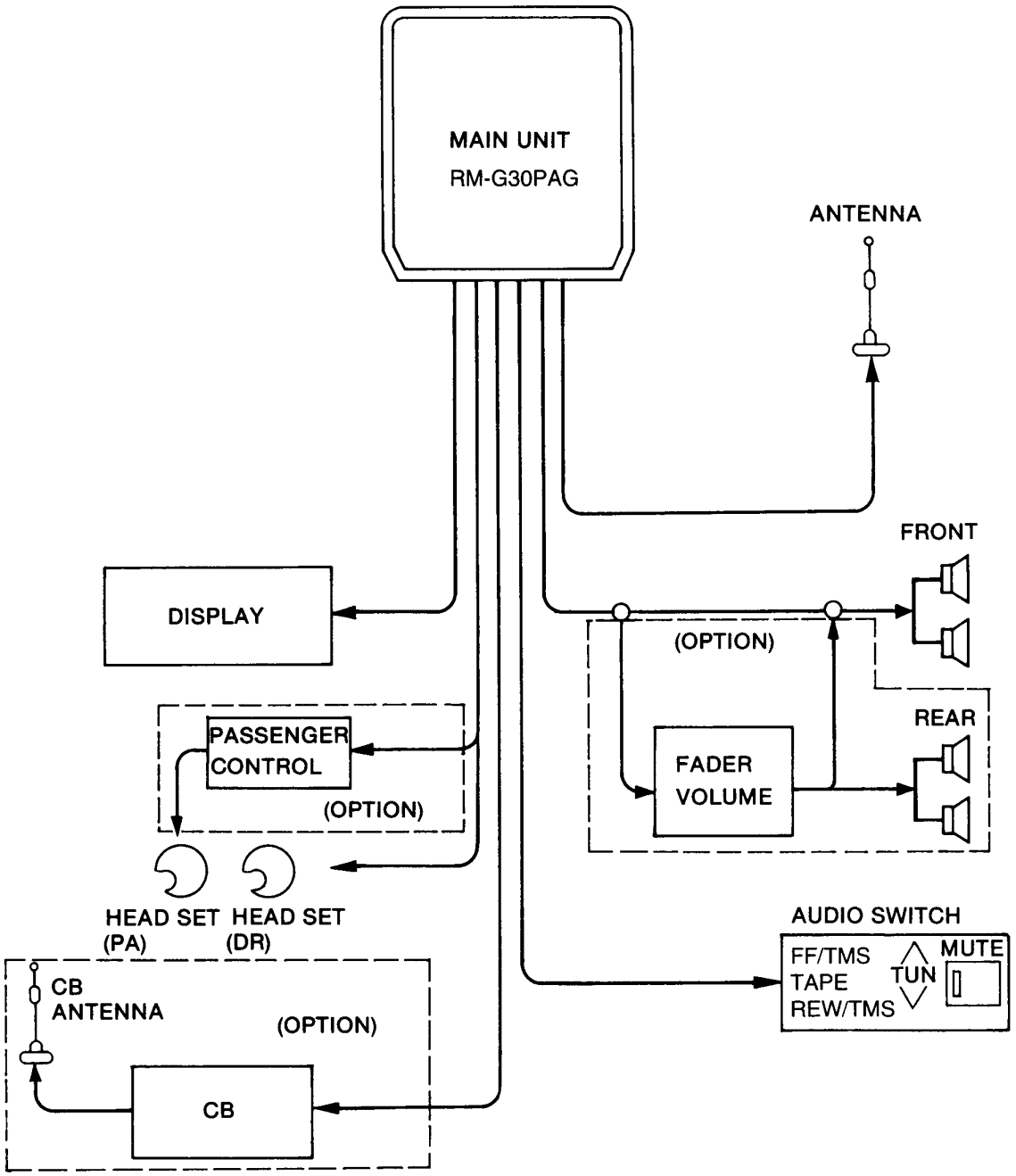
■ RADIO CONNECTOR

13. MIC PA
14. MIC E PA
15. HS OUT E
16. HS OUT L
17. FR SP ⊖
18. FR SP ⊕
19. SPEED PULSE
20. ACC
21. MIC DR
22. MIC E DR
23. HS OUT R
24. GND
25. FL SP ⊕
26. FL SP ⊖
27. TUNE DN
28. MUTE
29. TUNE UP
30. BACK UP

■ DISPLAY CONNECTOR

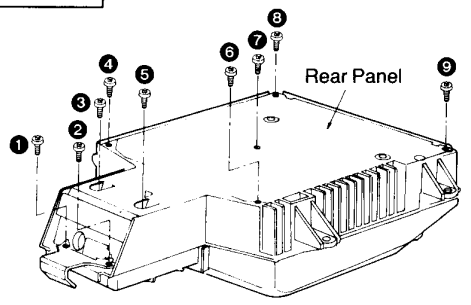
31. DATA
32. GND
33. BK
34. CLOCK
35. LOAD
36. K-MUTE

AUDIO SYSTEM CONNECTION



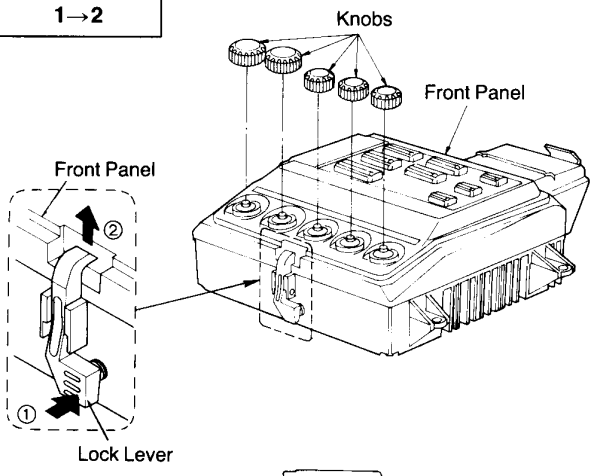
DISASSEMBLY INSTRUCTIONS

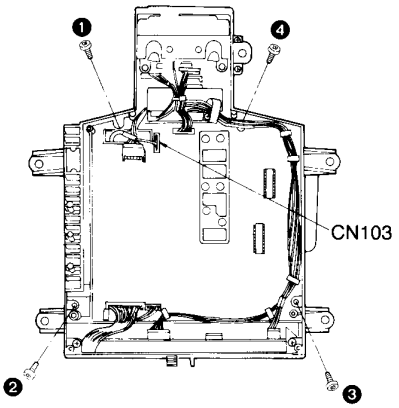
Ref. No. 1	Removal of the Rear Panel
Procedure 1	



1. Remove 9 screws (❶~❾).
2. Remove the Rear Panel in the direction of arrow.

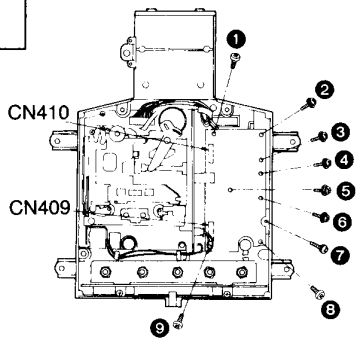
Ref. No. 2	Removal of the Front Panel
Procedure 1→2	





1. Remove 5 knobs (Volume Knob).
2. Remove the connector (CN103).
3. Remove 4 screws (❶~❹).
4. Press the lock lever in the direction of arrow ①, and remove the front panel in the direction of arrow ②.

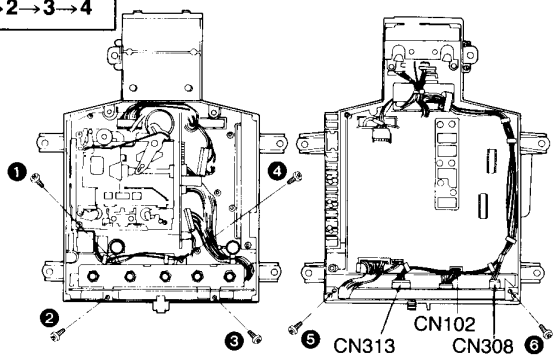
Ref. No. 3	Removal of the Power amp P.C.B.
Procedure 1→2→3	



1. Remove 9 screws (❶~❾).
2. Remove 2 connectors (CN409, CN410).

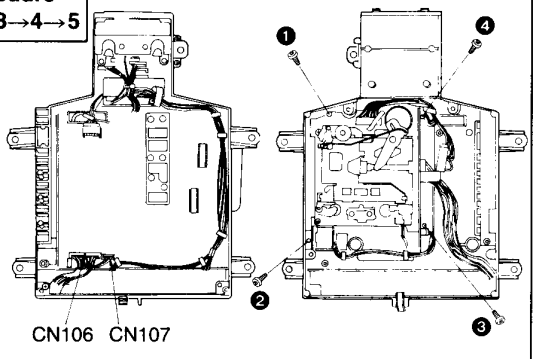
●When mounting the power IC, apply silicon thermal compound (SZZ0L15 or equivalent) to the rear of the power IC.

Ref. No. 4	Removal of the Volume P.C.B.
Procedure 1→2→3→4	



1. Remove 6 screws (❶~❻).
2. Remove 3 connectors (CN102, CN308, CN313).

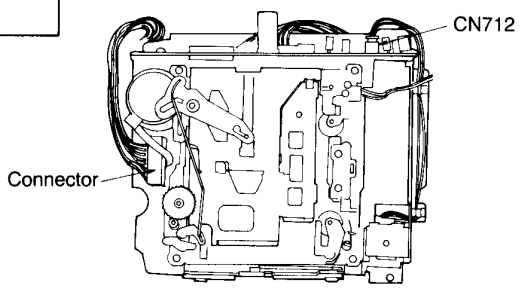
Ref. No. 5	Removal of the Mechanism and Mechanism Control P.C.B.
Procedure 1→2→3→4→5	

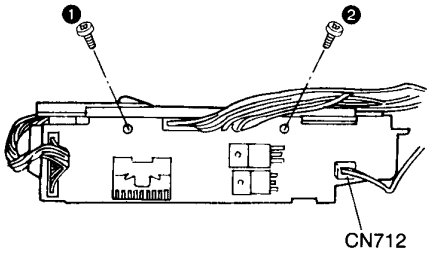


1. Remove 2 connectors (CN106, CN107).
2. Remove 4 screws (❶~❹).

Ref. No. 6	Removal of the Mechanism Control P.C.B.

Procedure
1→2→3→4→5→6

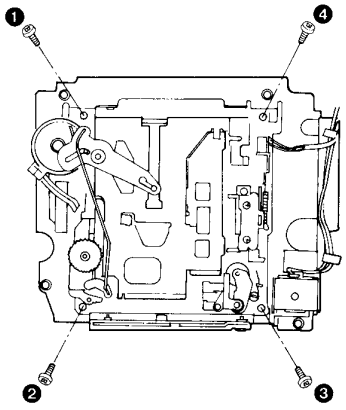




1. Remove 2 connectors.
2. Remove 2 screws (❶, ❷).

Ref. No. 7	Removal of the Mechanism

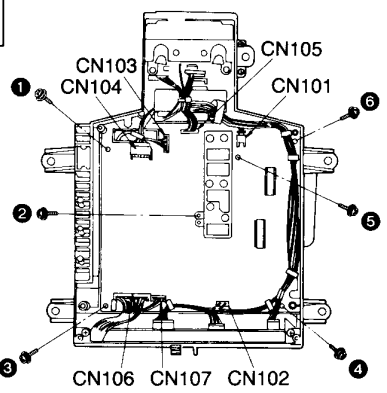
Procedure
1→2→3→4→5→6→7



- Remove 4 screws (❶~❹).

Ref. No. 8	Removal of the Main P.C.B.

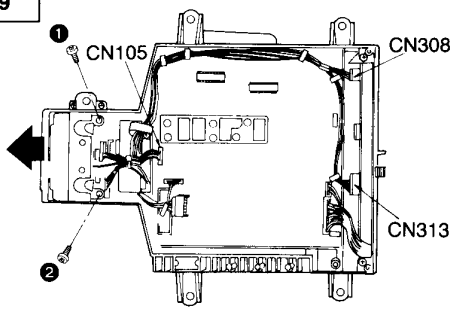
Procedure
1→8



1. Remove 7 connectors (CN101~CN107).
2. Remove 6 screws (❶~❻).

Ref. No. 9	Removal of the Terminal P.C.B.

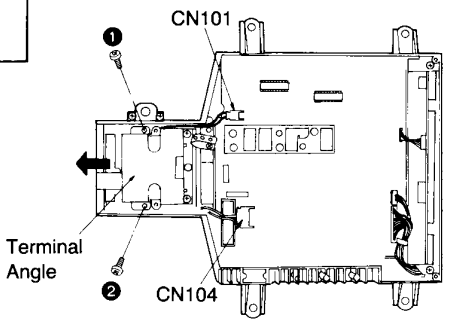
Procedure
1→2→3→9



1. Remove 3 connectors (CN105, CN308, CN313).
2. Remove 2 screws (❶, ❷).
3. Remove the Terminal P.C.B. in the direction of arrow.

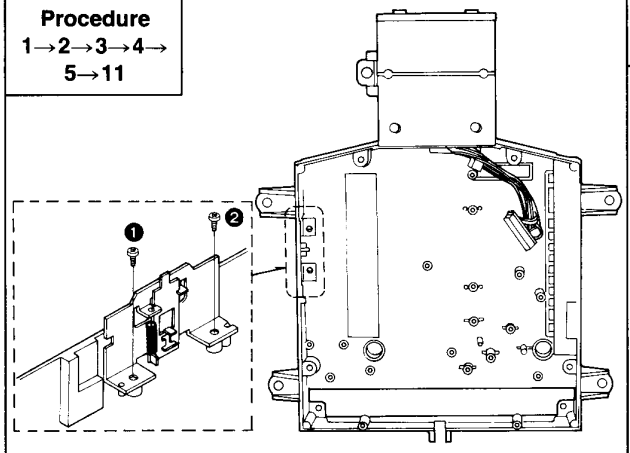
Ref. No. 10	Removal of the Terminal Angle

Procedure
1→2→3→9→10



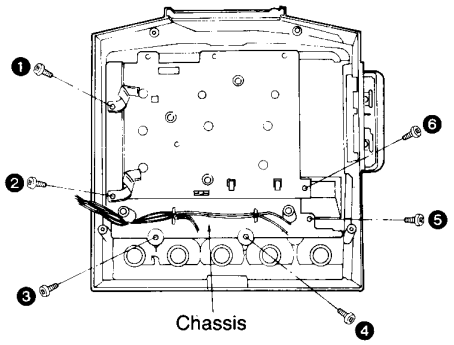
1. Remove 2 connectors (CN101, CN104).
2. Remove 2 screws (❶, ❷).
3. Remove the Terminal angle in the direction of arrow.

Ref. No. 11	Removal of the Eject Angle
Procedure 1→2→3→4→5→11	



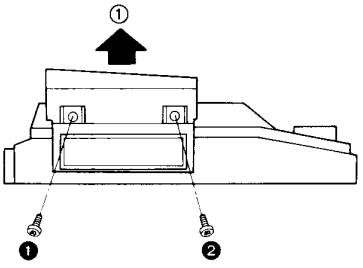
●Remove 2 screws (❶, ❷).

Ref. No. 13	Removal of the Chassis
Procedure 1→2→12→13	



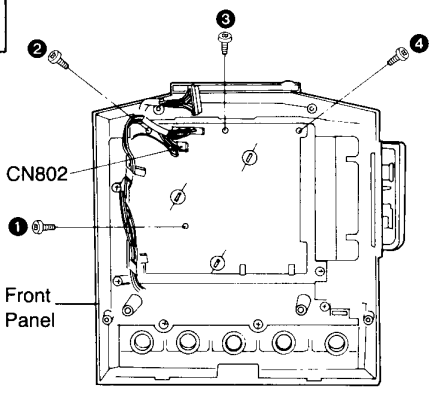
1. Remove 6 screws (❶~❻).
2. Remove the Chassis.

Ref. No. 14	Removal of the Cassette Lid
Procedure 1→2→14	

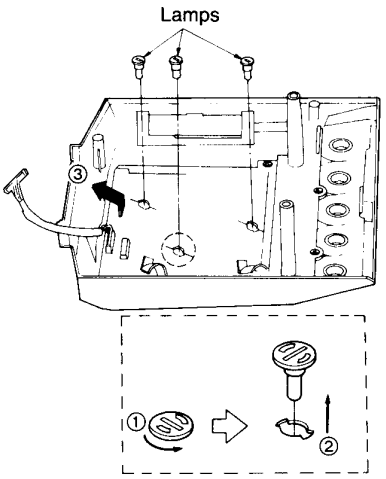


1. Remove 2 screws (❶, ❷).
2. Remove the Cassette Lid in the direction of arrow ①.

Ref. No. 12	Removal of the Operation P.C.B.
Procedure 1→2→12	

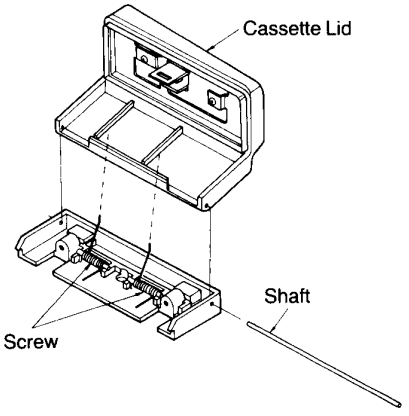


1. Remove the connector (CN802).
2. Remove 4 screws (❶~❹).



3. Remove 3 Lamps in the direction of arrows ① and ②.
4. Remove the Operation P.C.B. in the direction of arrow ③.

■ CASSETTE LID ASSEMBLY



SCHEMATIC DIAGRAM •VOLUME/TONE/CONNECTOR/POWER AND CIRCUIT

Notes

1 S1 S1-1, Memory switch
S1-2, Ambience switch
S1-3, Program/Channel switch
S1-4, Band switch
S1-5, Head set/Speaker select switch
S1-6, Function select switch
S1-7, Scan switch
S1-8, Eject switch

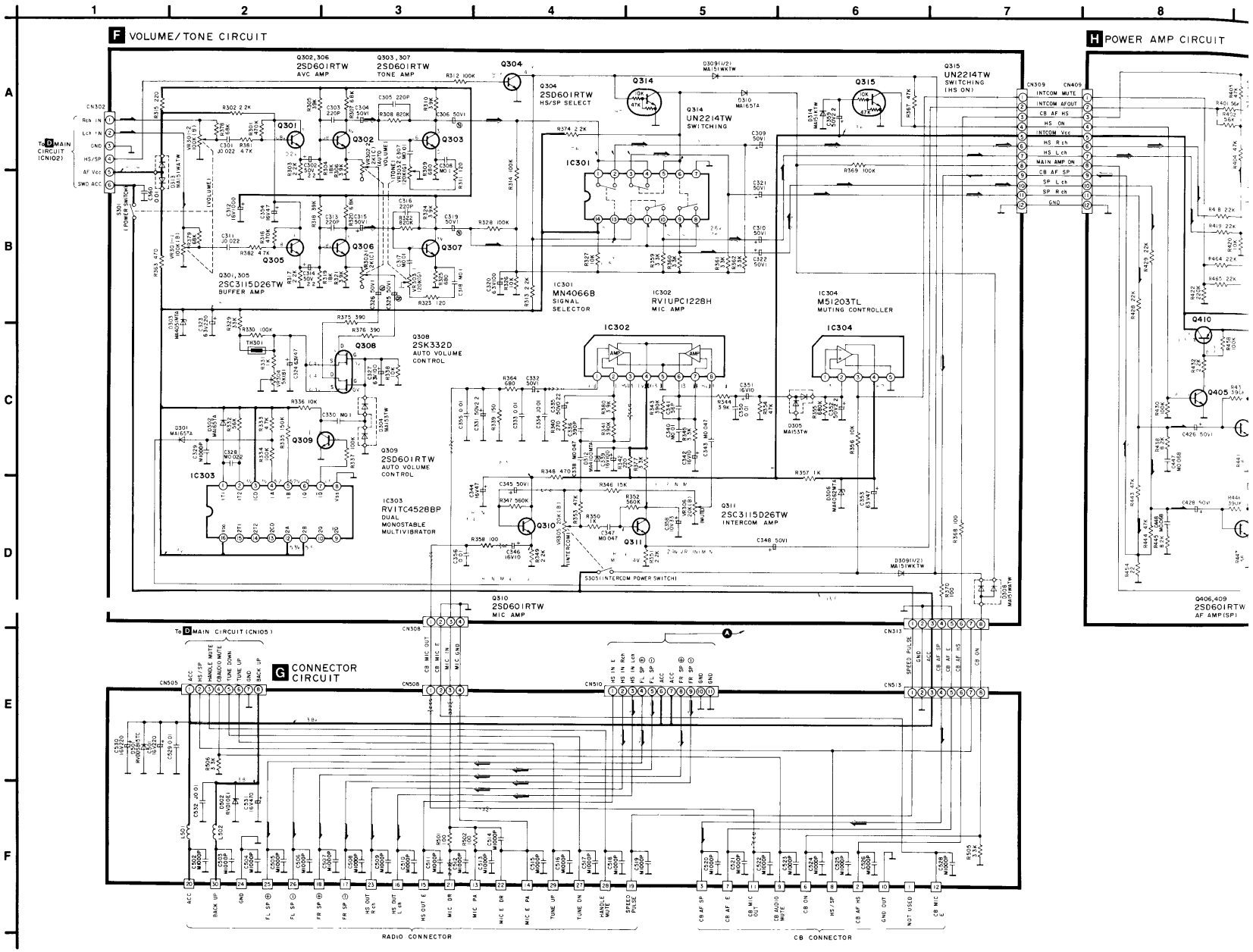
2 S301 Power switch (VR301)
3 S305 Intercom ON/OFF switch (VR305)
4 VR1 FM VCO adjustment VR
5 VR301 Volume control VR (S301)
6 VR302 Auto volume control VR
7 VR303 Tone control VR
8 VR304 Auto volume control gain adjustment VR
9 VR305 Intercom volume control VR (S305)
10 VR306 Mute level control VR
11 DC voltage measurement is taken with an electronics voltmeter from negative terminal of battery

No mark	TAPE PLAYBACK
[ ]	SPEAKER
(( ))	HEAD SET
[[ ]]	INTERCOM SWITCH OFF
` ´	FM
( )	AM
	FF/REW

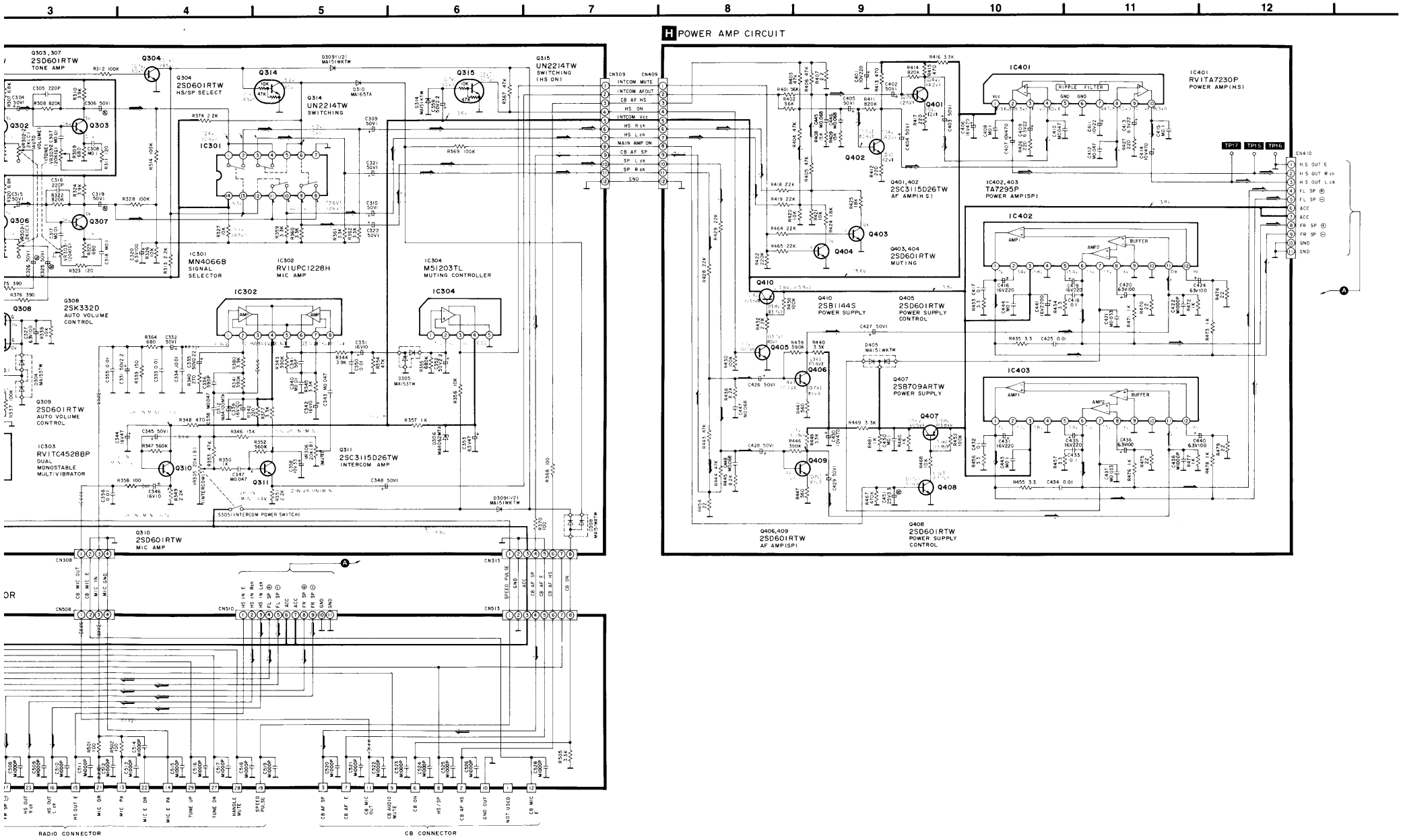
12 The mark (■) shows test point, e g
TP1 =test point 1

•This schematic diagram may be modified at any time with the development of new technology

FM SIGNAL LINE
AM SIGNAL LINE
AM OSC SIGNAL LINE
FM OSC SIGNAL LINE
TAPE PLAYBACK SIGNAL LINE
TMS SIGNAL LINE
MAIN SIGNAL LINE
FM/AM V-cap CONTROL SIGNAL LINE
MIC SIGNAL LINE
+B LINE

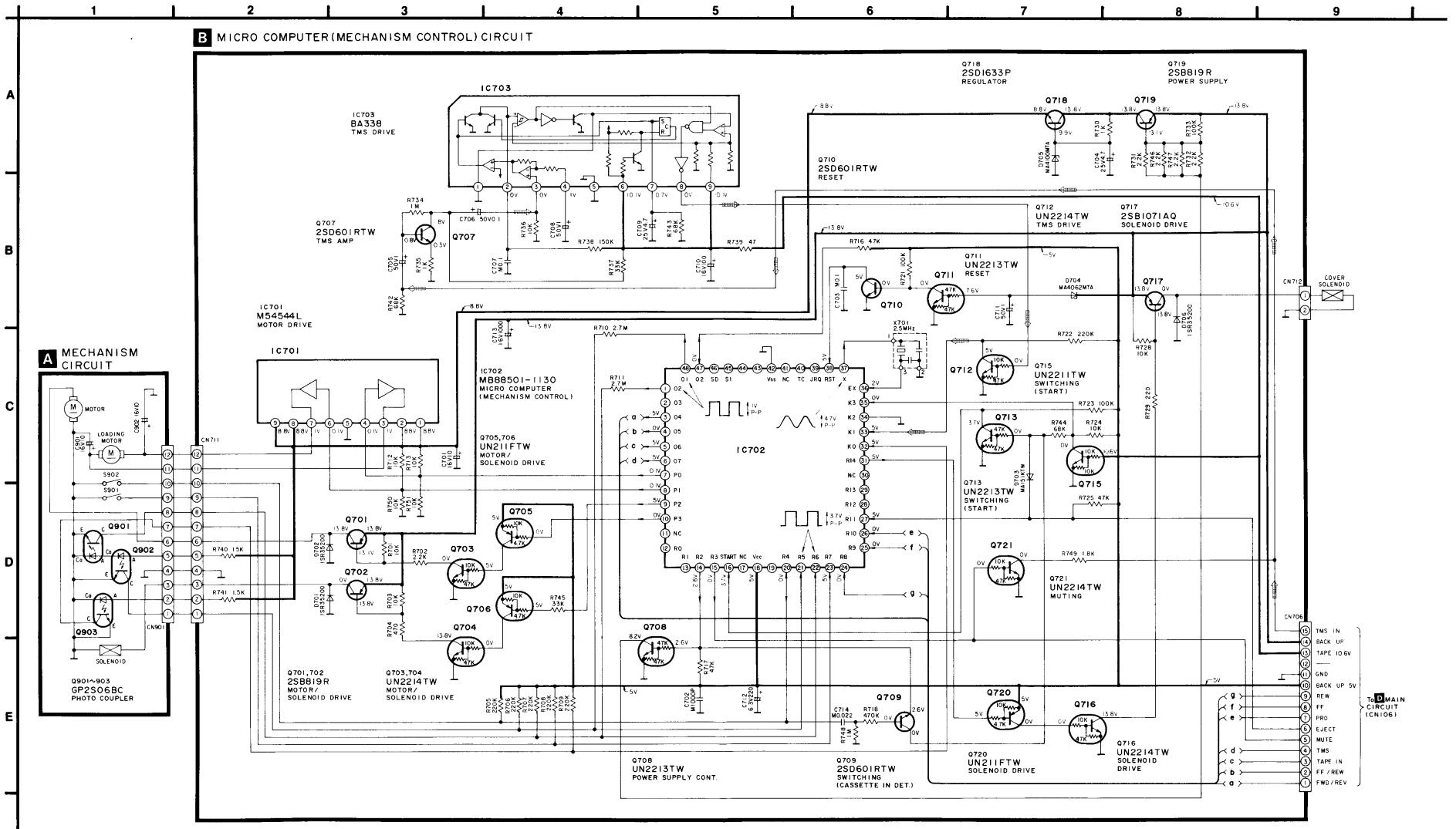


TONE/CONNECTOR/POWER AND CIRCUIT



RM-G30PAG

SCHEMATIC DIAGRAM •MECHANISM/MICRO COMPUTER CIRCUIT



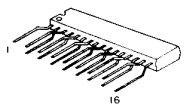
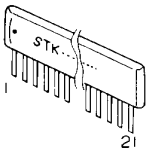
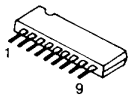
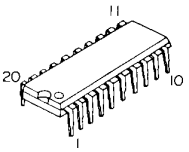
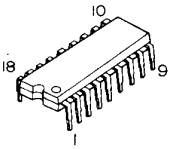
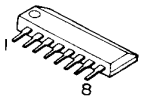
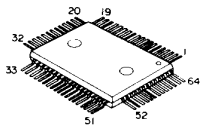
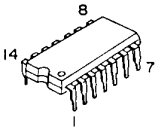
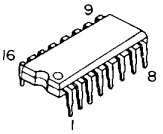
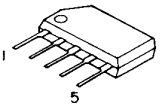
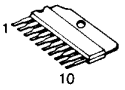
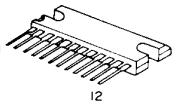
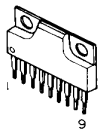
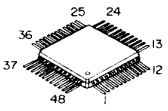
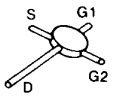
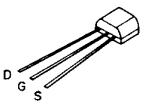
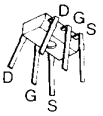
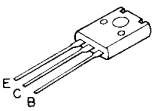
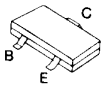
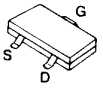
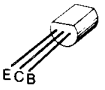
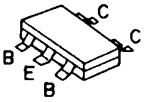
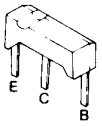
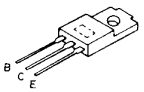
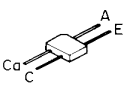
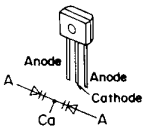
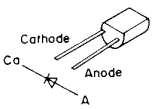
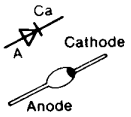
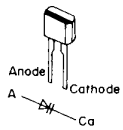
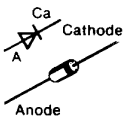
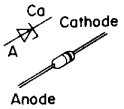
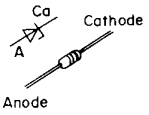
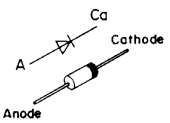
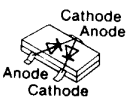
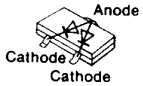
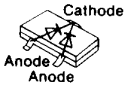
Notes:

1. S901: Loading detect switch.
2. S902: Auto tape select switch.
3. DC voltage measurement is taken with an electronics voltmeter from negative terminal.
   No mark...TAPE PLAYBACK
4. Battery current: max .....8 A
   min .....0.9 A

•This schematic diagram may ba modified at any time with the development of new technology.

TMS SIGNAL LINE
+B LINE

•TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES

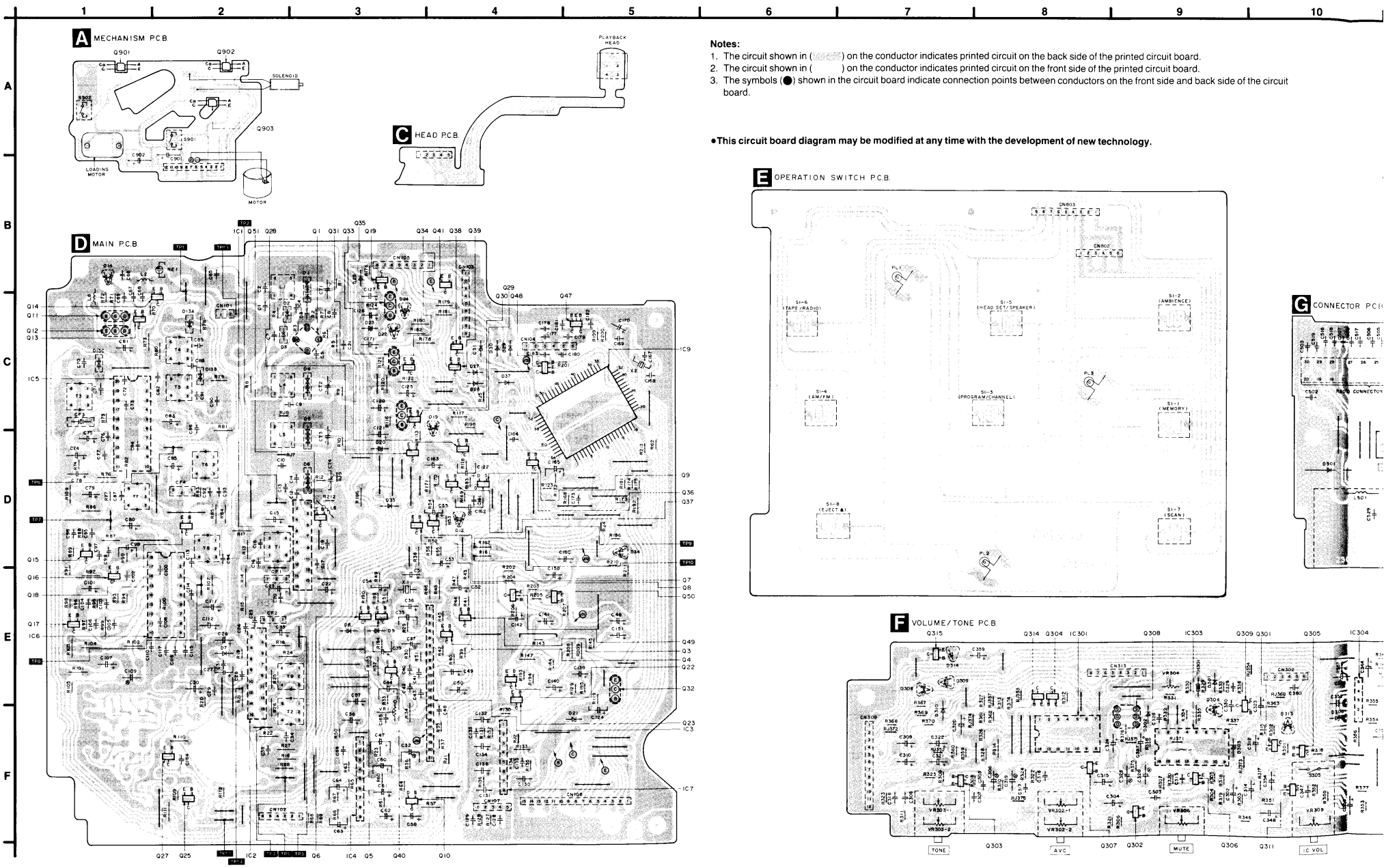
LA1175 RVILA1140 	STK3400A 	RVIBA6133 BA338 	LA1135 	HA12429 	RVIUPC1228H 
UPD1714GA964 	MN4066B 	RVITC4528BP 	M51203TL 	RVITA7230P 	TA7295P 
M54544L 	MB88501-1130 	3SK74L 	2SK184GR 	2SK332D 	2SB1144S 
	2SB709ARTW 2SB709RTW 2SC2295BTW 2SC2404CTW 2SC3115D26TW 2SD596DV2TW 2SD601RTW	2SD601STW UN211FTW UN2124TW UN2211TW UN2213TW UN2214TW	2SK160K4TW 	2SA684R 2SC1384R 	RVTFMG5TX 
2SB819R 	2SB1071AQ 2SD1633P 	GP2S06BC 	RVD1SV103 	1SV99 	RVDKB265G 
RVDKV1235ZB 	MA165TA 1SR35200 	MA4100MTA MA4110MTA MA4120MTA 	MA4051MTA MA4062HTA MA4062MTA 	RVD10E1 RVDDSB15TC 	MA153TW 
MA151WKTW 	MA151WATW 	MA151KTW 			

CIRCUIT BOARD DIAGRAM

Notes:

1. The circuit shown in ( ) on the conductor indicates printed circuit on the back side of the printed circuit board.
2. The circuit shown in ( ) on the conductor indicates printed circuit on the front side of the printed circuit board.
3. The symbols (●) shown in the circuit board indicate connection points between conductors on the front side and back side of the circuit board.

•This circuit board diagram may be modified at any time with the development of new technology.



5 6 7 8 9 10 11 12 13 14

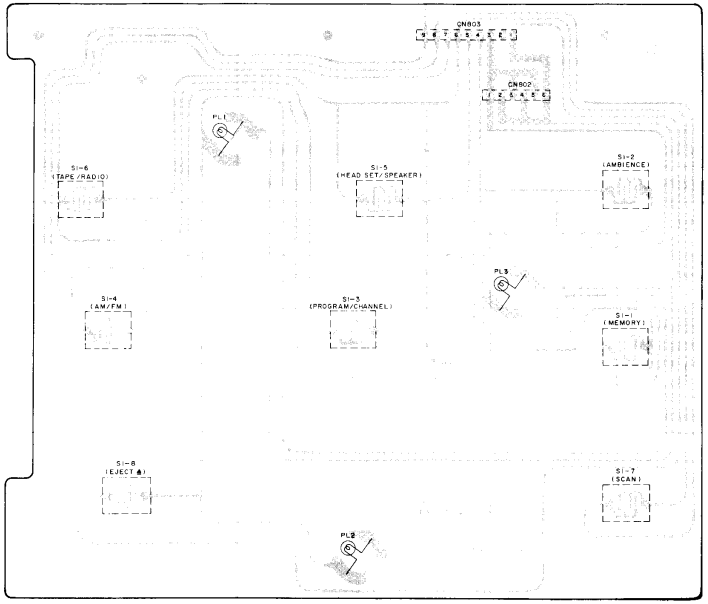
PLAYBACK HEAD

Notes:

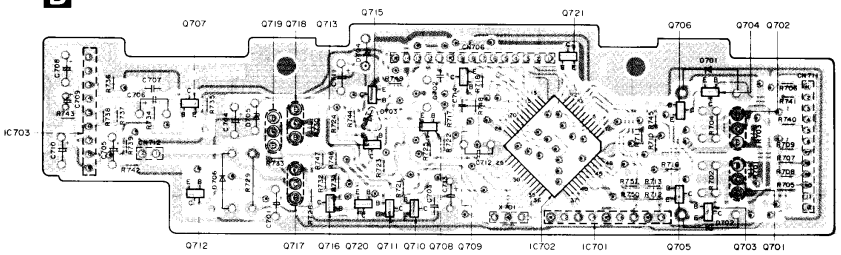
1. The circuit shown in ( ) on the conductor indicates printed circuit on the back side of the printed circuit board.
2. The circuit shown in ( ) on the conductor indicates printed circuit on the front side of the printed circuit board.
3. The symbols (●) shown in the circuit board indicate connection points between conductors on the front side and back side of the circuit board.

•This circuit board diagram may be modified at any time with the development of new technology.

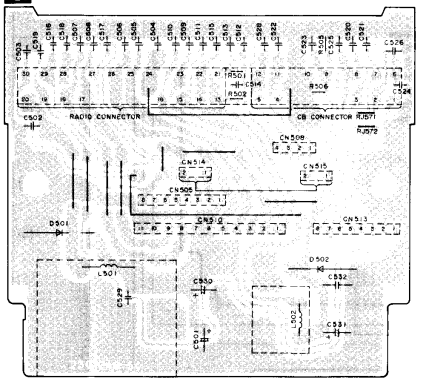
E OPERATION SWITCH P.C.B.



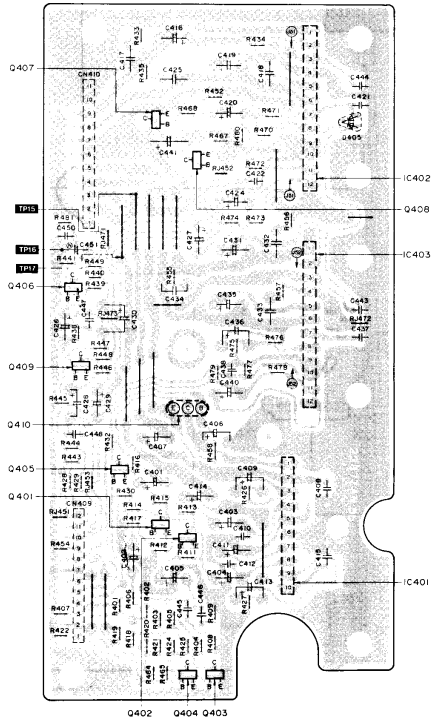
B MICRO COMPUTER (MECHANISM CONTROL) P.C.B.

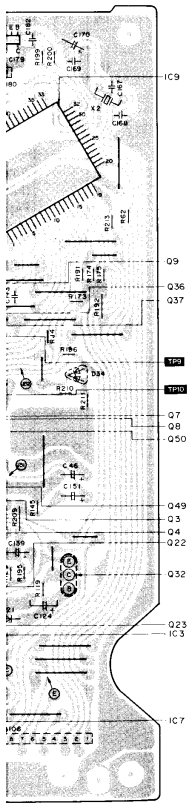


G CONNECTOR P.C.B.

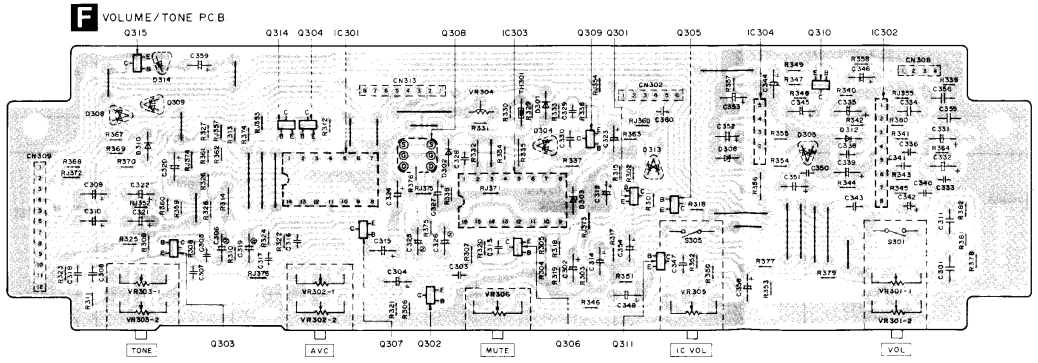


H POWER AMP P.C.B.

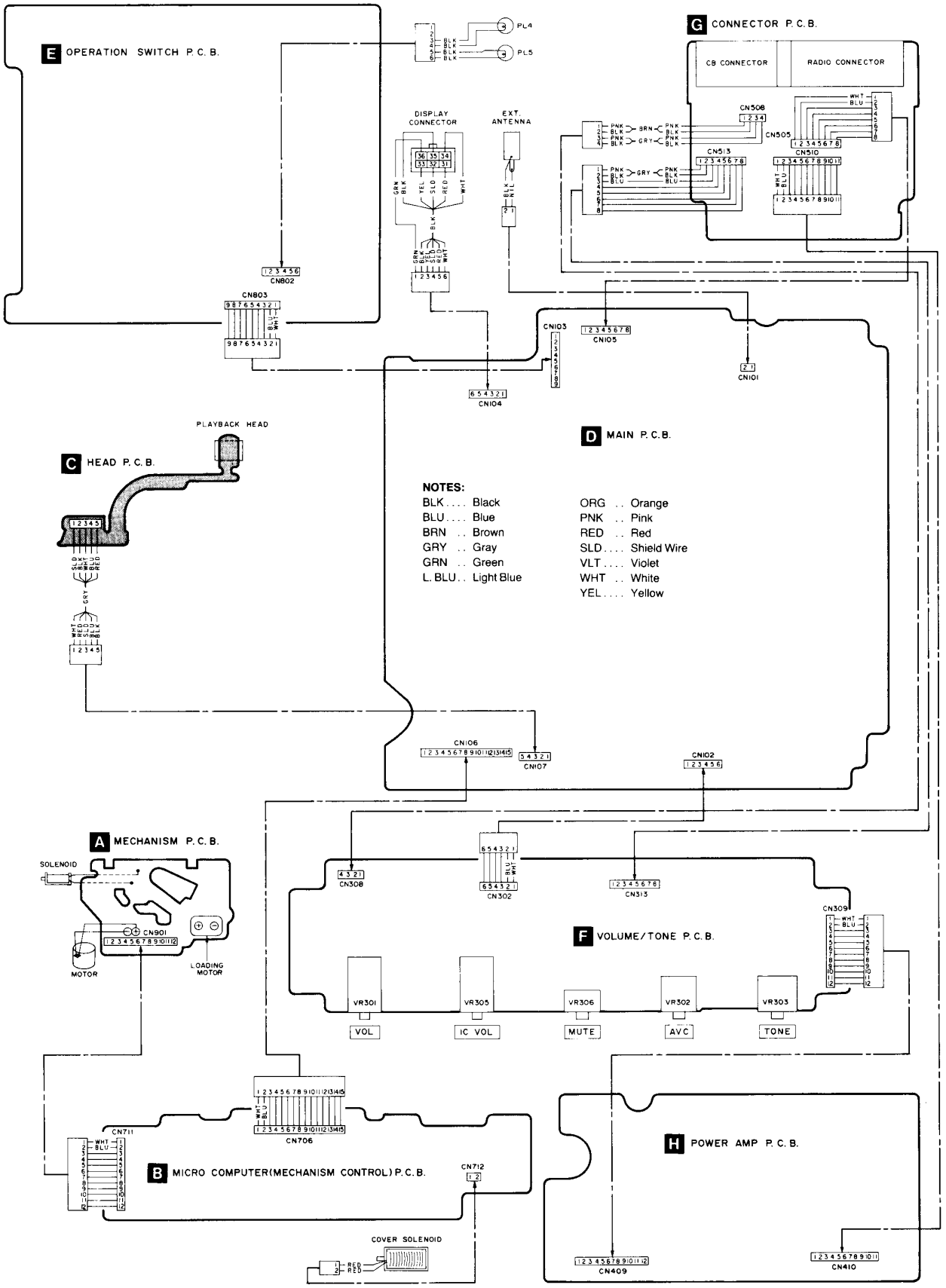




F VOLUME/TONE P.C.B.



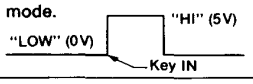
WIRING CONNECTION DIAGRAM



IC TERMINAL FUNCTIONS

■ IC9 (UPD1714GA964)

Pin No.	Mark	Pin Name	Function
1	NC	—	—
2	E01	PLL error output	This pin provides the signal needed to control the tuning circuit (antenna and OSC) for each band. The signal appearing at this pin is coupled to an L.P.F. (Q36, 37), which controls varactor diodes D1-4, 6, 13. The local OSC and reference frequencies applied to pins 5 and 6 are compared. If the local OSC frequency exceeds the reference, this pin is set high; if it is lower than the reference, it is set low; if they are identical, this pin floats.
3	E02	PLL error output	—
4, 8	GND	Ground	Connected to ground.
5	V_{LOL}	AM local OSC signal input	This pin accepts an AM Local OSC signal from IC5 (pin 20) as an AM tuning circuit control signal.
6	V_{LOH}	FM local OSC signal input	This pin accepts an FM Local OSC signal from IC1 (pin 1) as an FM tuning circuit control signal.
7	CE	Chip Enable input	Accepts a Chip Enable signal: High level...All device functions are enabled. Low level...All device inputs are disabled (except Memory Hold).
9	T/R	Tape/Radio mode switching output	Provides a Tape/Radio Switching signal: High level: Tape mode, switching transistor Q34 is turned on to supply power to the tape circuit. Low level: Radio mode, Q34 is turned off, which then turns Q28 on to supply power to the radio circuit.
10	FM/AM	Radio band switching output	Provides an FM/AM band switching signal: High level: FM mode, a high level is applied to the base of transistor Q31 to turn it on, this pulls the base of Q29 low and turns it on to supply power to the FM circuit. Low level: AM mode, a low level is applied to the base of transistor Q31 to turn it off, this pulls the base of Q28 high and turns it on to supply power to the AM circuit.
11	HS/SP	Headphones/ speaker switching signal output	Provides a headphones/speaker switching signal. High level: Selects the speaker. Low level: Selects the headphones.
12	SD	Auto-tuning detection input	If a station is encountered during auto-tuning, a high level signal is applied to this pin to stop tuning scan.
13	ST	FM stereo/ mono signal input	Provides an FM stereo/mono switching signal to IC3 (pin 6). High level: FM mono mode Low level: FM stereo mode
14	F/R	FWD/REV switching input	Accepts a FWD/REV switching signal. High level: FWD operation Low level: REV operation

Pin No.	Mark	Pin Name	Function
15	TMS	TMS signal input	Provides a TMS signal
16	TAPE IN	Tape load input	Checks if a cassette tape is loaded. High level: Cassette tape loaded. Low level: No Cassette tape loaded.
17	FF/RE	Tape FF/REW switching input	Accepts on FF/RE switching signal. High level: FF Low level: REW
18	METAL	Metal tape input	Checks whether the loaded tape is a metal tape or not. High level: Metal tape Low level: Non-metal (normal) tape
19	K MUTE	Mute signal input	Accepts a Mute signal when a key operation is made. High level: Muting on Low level: Muting off
20	FF	FF signal output	Provides a FF signal.
21	AMB	Ambience on/off signal output	Provides an Ambience on/off signal. High level: Ambience operation on Low level: Ambience operation off
22	A MUTE	Mute signal output	If the Mute on/off signal is applied to pin 17 of the device, this pin yields a Muting signal to the base of Q9. High level: Muting off Low level: Muting on
23	RR0	Cassette deck *program* switching output	Provides a pulse signal if the TUNE DOWN/IRO key is pressed to on in the Tape mode. 
24, 25	$X\bar{0}$, $X\bar{1}$	Crystal resonator inputs	A 4.5MHz crystal resonator is connected across these pins.
26	VDD	Power supply input	Accepts a +5V power.
27	REW	REW signal output	Provides a REW signal.
28	S27	LCD driving signal (blank) output	Provides an LCD driving signal to Q48.
29	S26	LCD driving signal (load) output	Provides an LCD driving signal to Q48.
30	S25	LCD driving signal clock output	Provides an LCD driving signal to Q47.
31	S24	LCD driving signal data output	Provides LCD display data to Q47.
32 ⟆ 50	S23 ~S5	LCD segment signal outputs	—
51 ⟆ 54	S4~S1	Key matrix signal outputs	Provides key matrix signals.
55	S0	Key matrix signal output	—
56, 57	COM1 COM2	LCD common signal output	—
59 ⟆ 62	K3~K0	Key return signal inputs	Accept data signal lines from keys.

■ IC707 (MB88501-1130)

<table>
<tr><th>Terminal No.</th><th>Terminal Symbol</th><th>I/O Function</th><th>Description</th></tr>
<tr><td>1</td><td>02</td><td>O</td><td>Inputs the rotation signal for the reel table on the reverse side.</td></tr>
<tr><td>2</td><td>03</td><td>–</td><td>———</td></tr>
<tr><td>3–6</td><td>04–07</td><td>O</td><td>Outputs the mechanism operation signal.</td></tr>
<tr><td>7
8</td><td>P0
P1</td><td>O</td><td>Outputs the loading motor control signal.
<table>
<tr><th>P0</th><th>P1</th><th>Motor Condition</th></tr>
<tr><td>L</td><td>L</td><td>stop</td></tr>
<tr><td>L</td><td>H</td><td>reverse rotation</td></tr>
<tr><td>H</td><td>L</td><td>forward rotation</td></tr>
<tr><td>H</td><td>H</td><td>brake</td></tr>
</table></td></tr>
<tr><td>9</td><td>P2</td><td>O</td><td>Outputs the solenoid control signal.
H = OFF; L = ON
Remains in the ON status when an approx. 500-Hz pulse is sent from this terminal.</td></tr>
<tr><td>10</td><td>P3</td><td>O</td><td>Outputs the capstan motor control signal.
H = stop; L = rotation</td></tr>
<tr><td>14</td><td>R2</td><td>O</td><td>Outputs the mechanism circuit power supply control signal.
H = ON; L = OFF</td></tr>
<tr><td>15</td><td>R3</td><td>O</td><td>Outputs the muting signal.
H = muting ON; L = muting OFF</td></tr>
<tr><td>16</td><td>START</td><td>I</td><td>Inputs the micro computer start-up signal.
H = start-up; L = stand-by</td></tr>
<tr><td>18</td><td>Vcc</td><td>I</td><td>For power supply (5V).</td></tr>
<tr><td>20</td><td>R4</td><td>I/O</td><td>Outputs the cassette tape insertion detection and auto tape selection signals.
When the cassette tape is loaded or ejected: this is detected when the signal changes from L to H.
When the cassette tape is loaded: when the signal is at H, metal/chrome tapes can be used: when the signal is at L, normal tapes can be used.</td></tr>
<tr><td>21</td><td>R5</td><td>I</td><td>Inputs the rotation signal for the reel table on the forward side.</td></tr>
<tr><td>22</td><td>R6</td><td>I</td><td>Inputs the rotation signal for the reel table on the reverse side.</td></tr>
<tr><td>23</td><td>R7</td><td>I</td><td>Inputs the loading mechanism operation signal.</td></tr>
<tr><td>24</td><td>R8</td><td>I</td><td>Inputs the mechanism control signal from the micro computer (IC9). (REW)</td></tr>
<tr><td>25</td><td>R9</td><td>I</td><td>Inputs the mechanism control signal from the micro computer (IC9). (FF)</td></tr>
<tr><td>26</td><td>R10</td><td>I</td><td>Inputs the mechanism control signal from the micro computer (IC9). (PRO)</td></tr>
<tr><td>27</td><td>R11</td><td>I</td><td>Inputs the mechanism control signal from the micro computer (IC9). (EJECT)</td></tr>
<tr><td>31</td><td>R14</td><td>O</td><td>Outputs the solenoid drive signal to open the cassette cover.
L = Solenoid ON (cassette cover is automatically opened.)</td></tr>
<tr><td>32</td><td>K0</td><td>I</td><td>Inputs the main gear position detection signal.
Becomes "L" when the main gear is in the stop position.</td></tr>
<tr><td>33</td><td>K1</td><td>I</td><td>Inputs the TMS signal. Becomes "L" between musical selections.</td></tr>
<tr><td>34</td><td>K2</td><td>I</td><td>For ground connection.</td></tr>
<tr><td>35</td><td>K3</td><td>I</td><td>Inputs the signal to start up the micro computer.</td></tr>
<tr><td>36</td><td>EX</td><td>I</td><td rowspan="2">For connecting the oscillator for micro computer clock signal.</td></tr>
<tr><td>37</td><td>X</td><td>O</td></tr>
<tr><td>38</td><td>RST</td><td>I</td><td>Inputs the micro computer reset signal.
L = reset; H = normal operation</td></tr>
<tr><td>47</td><td>02</td><td>I/O</td><td>Sets the test mode. Normally, when the RST input is at "L", the signal from this terminal becomes "H".</td></tr>
<tr><td>48</td><td>01</td><td>O</td><td>Inputs the rotation signal for the reel table on the forward side.</td></tr>
</table>

Notes : * Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
* The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.

Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)	
IC1	LA1175	I. C, FM FRONT END	
IC2	RVILA1140	I. C, FM IF AND DET	
IC3	STK3400A	I. C, FM NOISE BRANKER	
IC4	RVIBA6133	I. C, AMBIENCE	
IC5	LA1135	I. C, AM TUNER	
IC6	HA12429	I. C, AM NOISE BRANKER	
IC7	RVIUPC1228H	I. C, TAPE EQ AMP	
IC9	UPD1714GA964	I. C, PLL AND SYSTEM CONT.	
IC301	MN4066B	I. C, SIGNAL SELECTOR	
IC302	RVIUPC1228H	I. C, MIC AMP	
IC303	RVITC4528BP	I. C, MULTIVIBRATOR	
IC304	M51203TL	I. C, MUTE CONT	
IC401	RVITA7230P	I. C, POWER AMP(HEAD SET)	
IC402, 403	TA7295P	I. C, POWER AMP(SPEAKER)	
IC701	M54544L	I. C, MOTOR DRIVE	
IC702	MB88501-1130	I. C, MECHA-CONT.	
IC703	BA338	I. C, TMS DRIVE	
		TRANSISTOR(S)	
Q1	3SK74L	TRANSISTOR	
Q3	2SD601RTW	TRANSISTOR	
Q4	2SD601RTW	TRANSISTOR	
Q5	2SD601RTW	TRANSISTOR	
Q6	2SD601RTW	TRANSISTOR	
Q7	2SD601RTW	TRANSISTOR	
Q8	2SD601RTW	TRANSISTOR	
Q9	UN2214TW	TRANSISTOR	
Q10	2SK160K4TW	TRANSISTOR	
Q11	2SK184GR	TRANSISTOR	
Q12	2SK184GR	TRANSISTOR	
Q13	2SD601RTW	TRANSISTOR	
Q14	2SD601RTW	TRANSISTOR	
Q15	2SD601RTW	TRANSISTOR	
Q16	2SD601RTW	TRANSISTOR	
Q17	2SD601RTW	TRANSISTOR	
Q18	2SC2295BTW	TRANSISTOR	
Q19	2SD601RTW	TRANSISTOR	
Q22	2SD601RTW	TRANSISTOR	
Q23	2SD601RTW	TRANSISTOR	
Q25	2SD601RTW	TRANSISTOR	
Q27	2SD601RTW	TRANSISTOR	
Q28	2SD596DV2TW	TRANSISTOR	
Q29	UN2124TW	TRANSISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
Q30	2SC1384R	TRANSISTOR	
Q31	2SD601RTW	TRANSISTOR	
Q32	2SC1384R	TRANSISTOR	
Q33	2SA684R	TRANSISTOR	
Q34	2SD601RTW	TRANSISTOR	
Q35	2SC1384R	TRANSISTOR	
Q36	2SK160K4TW	TRANSISTOR	
Q37	2SD601RTW	TRANSISTOR	
Q38	2SB709RTW	TRANSISTOR	
Q39	2SB709RTW	TRANSISTOR	
Q40	2SB709RTW	TRANSISTOR	
Q41	2SD601STW	TRANSISTOR	
Q47	RVTFMG5TX	TRANSISTOR	
Q48	RVTFMG5TX	TRANSISTOR	
Q49	2SD601RTW	TRANSISTOR	
Q50	2SD601RTW	TRANSISTOR	
Q51	2SC2404CTW	TRANSISTOR	
Q301	2SC3115D26TW	TRANSISTOR	
Q302	2SD601RTW	TRANSISTOR	
Q303	2SD601RTW	TRANSISTOR	
Q304	2SD601RTW	TRANSISTOR	
Q305	2SC3115D26TW	TRANSISTOR	
Q306	2SD601RTW	TRANSISTOR	
Q307	2SD601RTW	TRANSISTOR	
Q308	2SK332D	TRANSISTOR	
Q309	2SD601RTW	TRANSISTOR	
Q310	2SD601RTW	TRANSISTOR	
Q311	2SC3115D26TW	TRANSISTOR	
Q314	UN2214TW	TRANSISTOR	
Q315	UN2214TW	TRANSISTOR	
Q401	2SC3115D26TW	TRANSISTOR	
Q402	2SC3115D26TW	TRANSISTOR	
Q403	2SD601RTW	TRANSISTOR	
Q404	2SD601RTW	TRANSISTOR	
Q405	2SD601RTW	TRANSISTOR	
Q406	2SD601RTW	TRANSISTOR	
Q407	2SB709ARTW	TRANSISTOR	
Q408	2SD601RTW	TRANSISTOR	
Q409	2SD601RTW	TRANSISTOR	
Q410	2SB1144S	TRANSISTOR	
Q701	2SB819R	TRANSISTOR	
Q702	2SB819R	TRANSISTOR	
Q703	UN2214TW	TRANSISTOR	
Q704	UN2214TW	TRANSISTOR	
Q705	UN211FTW	TRANSISTOR	
Q706	UN211FTW	TRANSISTOR	
Q707	2SD601RTW	TRANSISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
Q708	UN2213TW	TRANSISTOR	
Q709	2SD601RTW	TRANSISTOR	
Q710	2SD601RTW	TRANSISTOR	
Q711	UN2213TW	TRANSISTOR	
Q712	UN2214TW	TRANSISTOR	
Q713	UN2213TW	TRANSISTOR	
Q715	UN2211TW	TRANSISTOR	
Q716	UN2214TW	TRANSISTOR	
Q717	2SB1071AQ	TRANSISTOR	
Q718	2SD1633P	TRANSISTOR	
Q719	2SB819R	TRANSISTOR	
Q720	UN211FTW	TRANSISTOR	
Q721	UN2214TW	TRANSISTOR	
Q901	GP2S06BC	TRANSISTOR	
Q902	GP2S06BC	TRANSISTOR	
Q903	GP2S06BC	TRANSISTOR	
		DIODE(S)	
D1	RVD1SV103	DIODE	
D2	1SV99	DIODE	
D3	1SV99	DIODE	
D4	RVD1SV103	DIODE	
D5	RVD1SV103	DIODE	
D6	RVD1SV103	DIODE	
D7	RVDKB265G	DIODE	
D8	RVDKB265G	DIODE	
D9	MA165TA	DIODE	
D12	MA151WKTW	DIODE	
D13A, B, C	RVDKV1235ZB	DIODE	
D14	MA153TW	DIODE	
D19	MA151WATW	DIODE	
D20	MA4120MTA	DIODE	
D21	MA4110MTA	DIODE	
D22	MA151WATW	DIODE	
D23	MA4062HTA	DIODE	
D24	MA151WKTW	DIODE	
D25	MA4062MTA	DIODE	
D26	MA165TA	DIODE	
D27	MA165TA	DIODE	
D29	MA165TA	DIODE	
D30	MA165TA	DIODE	
D31	MA165TA	DIODE	
D33	MA165TA	DIODE	
D34	MA151WKTW	DIODE	
D37	MA165TA	DIODE	
D301	MA165TA	DIODE	
D302	MA165TA	DIODE	
D303	MA4051MTA	DIODE	
D304	MA153TW	DIODE	
D305	MA153TW	DIODE	
D306	MA4062MTA	DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks
D308	MA151WATW	DIODE	
D309	MA151WKTW	DIODE	
D310	MA165TA	DIODE	
D312	MA4100MTA	DIODE	
D313	MA151WATW	DIODE	
D314	MA151KTW	DIODE	
D405	MA151WKTW	DIODE	
D501	RVDDSB15TC	DIODE	
D502	RVD10E1	DIODE	
D701	1SR35200	DIODE	
D702	1SR35200	DIODE	
D703	MA151KTW	DIODE	
D704	MA4062MTA	DIODE	
D705	MA4100MTA	DIODE	
D706	1SR35200	DIODE	
		VARIABLE RESISTOR(S)	
VR1	EVND4AA00B14	V.R, FM SEPARATION	
VR301	EVK4HB014B15	V.R, VOL./POWER(S301)	
VR302	EVK9QA014C23	V.R, AUTO VOL. CONTROL	
VR303	EVK9QA014GA5	V.R, TONE CONTROL	
VR304	EVND1AA00B53	V.R, AUTO VOL. CONTROL GAIN	
VR305	EVK7QB014B24	V.R, INT-COM VOL./SW. (S305)	
VR306	EVK4QA014B24	V.R, INT-COM MUTE LEVEL	
		THERMISTOR(S)	
TH301	RRT103-U	THERMISTOR	
		COIL(S) AND TRANSFORMER(S)	
L1	RLA4N19A-0	COIL	
L2	RLQZP150KT-Y	COIL	
L4	RLA4N20A-0	COIL	
L5	RLA4N21A-0	COIL	
L6	RL04N235A-0	COIL	
L8	RLQZP4R7KT-Y	COIL	
L501	RLT6G7A-I	COIL	
L502	RLT6D1A-W	COIL	
T1	RLI4A40-Z	I.F. TRANSFORMER	
T2	RLI4A24-T	I.F. TRANSFORMER	
T3	RL02A26-T	TRANSFORMER	
T4	RLA2A6-T	TRANSFORMER	
T5	RLA2A7-T	TRANSFORMER	
T6	RLI2A29-T	I.F. TRANSFORMER	
T7	RLI2A30-T	I.F. TRANSFORMER	
T8	RLI2A16	TRANSFORMER	
T9	RLI4A41-T	TRANSFORMER	

Ref. No.	Part No.	Part Name & Description	Remarks
		FILTER(S)	
CF1	RVFSFE107MSR	CERAMIC FILTER	
CF2	RVFSFE107MSR	CERAMIC FILTER	
CF3	NCRZ450C4N7W	COMBINATION PART	
CF4	RVFCFMS450B	CERAMIC FILTER	
		OSCILLATOR(S)	
X1	RVBCSB456F15	OSCILLATOR	
X2	RVCF4500NZNH	OSCILLATOR	
X701	RSXY2M50M	OSCILLATOR	
		VARIABLE CAPACITOR(S)	
CT1	RCVTZ20F	TRIMMER	
CT2	RCVTZ20F	TRIMMER	
CT3	RCVTZ20F	TRIMMER	
CT4	RCVTZ20F	TRIMMER	
		LAMP	
NE1	XANR13T33	NEON LAMP	
PL1	XAMR011SA	NEON LAMP	
PL2	XAMR011SB	NEON LAMP	
PL3	XAMR011SA	NEON LAMP	
PL4.5	XAMR001SA	NEON LAMP	
		SWITCH(ES)	
S301	EVK4HB014B15	SW, POWER(VR301)	
S305	EVK7QB014B24	SW, INT-COM(VR305)	
S901	RSP1A003-A	SW, ROADING	
S902	RSP1A004-A	SW, TAPE	

Notes : * Capacity valuse are in microfarads (uF) unless specified otherwise, P=Pico-farads(pF) F=Farads(F)
* Resistance values are in ohms, unless specified otherwise, 1K=1,000(OHM) , 1M=1,000k(OHM)

Ref. No.	Part No.	Values & Remarks
		RESISTORS
R1	ERJ6GEYJ104V	1/10W 100K
R2	ERJ6GEYJ224V	1/10W 220K
R3	ERJ6GEYJ224V	1/10W 220K
R4	ERJ6GEYJ101V	1/10W 100
R5	ERDS2TJ154T	1/4W 150K
R6	ERJ6GEYJ224V	1/10W 220K
R7	ERJ6GEYJ221V	1/10W 220
R8	ERDS2TJ101T	1/4W 100
R9	ERJ6GEYJ104V	1/10W 100K
R10	ERJ6GEYJ104V	1/10W 100K
R12	ERJ6GEYJ104V	1/10W 100K
R13	ERDS2TJ470T	1/4W 47
R14	ERDS2TJ331T	1/4W 330
R15	ERDS2TJ471T	1/4W 470
R16	ERDS2TJ102T	1/4W 1K
R17	ERDS2TJ101T	1/4W 100
R18	ERDS2TJ331T	1/4W 330
R19	ERJ6GEYJ822V	1/10W 8.2K
R20	ERJ6GEYJ470V	1/10W 47
R21	ERDS2TJ473T	1/4W 47K
R22	ERDS2TJ683T	1/4W 68K
R23	ERJ6GEYJ102V	1/10W 1K
R24	ERDS2TJ103T	1/4W 10K
R25	ERDS2TJ103T	1/4W 10K
R26	ERDS2TJ472T	1/4W 4.7K
R27	ERDS2TJ332T	1/4W 3.3K
R28	ERDS2TJ273T	1/4W 27K
R29	ERJ6GEYJ472V	1/10W 4.7K
R30	ERJ6GEYJ153V	1/10W 15K
R31	ERJ6GEYJ562V	1/10W 5.6K
R32	ERDS2TJ101T	1/4W 100
R33	ERJ6GEYJ183V	1/10W 18K
R34	ERDS2TJ330T	1/4W 33
R35	ERJ6GEYJ333V	1/10W 33K
R36	ERJ6GEYJ473V	1/10W 47K
R37	ERJ6GEYJ821V	1/10W 820
R38	ERDS2TJ102T	1/4W 1K
R39	ERJ6GEYJ102V	1/10W 1K
R40	ERJ6GEYJ102V	1/10W 1K
R41	ERJ6GEYJ474V	1/10W 470K
R42	ERJ6GEYJ474V	1/10W 470K
R43	ERJ6GEYJ332V	1/10W 3.3K
R44	ERJ6GEYJ102V	1/10W 1K
R45	ERJ6GEYJ102V	1/10W 1K
R46	ERDS2TJ332T	1/4W 3.3K
R47	ERJ6GEYJ223V	1/10W 22K
R48	ERDS2TJ223T	1/4W 22K
R49	ERJ6GEYJ104V	1/10W 100K
R50	ERJ6GEYJ104V	1/10W 100K
R51	ERJ6GEYJ104V	1/10W 100K
R52	ERDS2TJ103T	1/4W 10K
R53	ERJ6GEYJ103V	1/10W 10K
R54	ERJ6GEYJ332V	1/10W 3.3K
R55	ERJ6GEYJ182V	1/10W 1.8K
R56	ERJ6GEYJ182V	1/10W 1.8K
R57	ERDS2TJ103T	1/4W 10K
R60	ERJ6GEYJ274V	1/10W 270K
R61	ERJ6GEYJ274V	1/10W 270K
R62	ERJ6GEYJ274V	1/10W 270K
R63	ERJ6GEYJ102V	1/10W 1K
R64	ERJ6GEYJ102V	1/10W 1K
R65	ERJ6GEYJ221V	1/10W 220
R66	ERJ6GEYJ103V	1/10W 10K
R67	ERJ6GEYJ103V	1/10W 10K
R68	ERJ6GEYJ332V	1/10W 3.3K
R69	ERJ6GEYJ332V	1/10W 3.3K
R70	ERJ6GEYJ470V	1/10W 47
R71	ERJ6GEYJ470V	1/10W 47
R72	ERJ6GEYJ104V	1/10W 100K
R73	ERDS2TJ154T	1/4W 150K
R74	ERJ6GEYJ103V	1/10W 10K
R75	ERJ6GEYJ820V	1/10W 82
R76	ERDS2TJ103T	1/4W 10K
R77	ERJ6GEYJ272V	1/10W 2.7K
R78	ERDS2TJ154T	1/4W 150K
R79	ERDS2TJ154T	1/4W 150K
R80	ERDS2TJ100T	1/4W 10
R81	ERDS2TJ680T	1/4W 68
R82	ERJ6GEYJ221V	1/10W 220
R83	ERJ6GEYJ152V	1/10W 1.5K
R84	ERDS2TJ332T	1/4W 3.3K
R85	ERDS2TJ105T	1/4W 1M
R86	ERDS2TJ330T	1/4W 33
R87	ERDS2TJ332T	1/4W 3.3K
R88	ERJ6GEYJ822V	1/10W 8.2K
R89	ERJ6GEYJ472V	1/10W 4.7K
R90	ERJ6GEYJ682V	1/10W 6.8K
R91	ERJ6GEYJ103V	1/10W 10K
R92	ERDS2TJ472T	1/4W 4.7K
R93	ERJ6GEYJ472V	1/10W 4.7K
R94	ERJ6GEYJ562V	1/10W 5.6K
R95	ERJ6GEYJ473V	1/10W 47K
R96	ERJ6GEYJ683V	1/10W 68K
R97	ERJ6GEYJ274V	1/10W 270K
R98	ERJ6GEYJ682V	1/10W 6.8K
R99	ERDS2TJ272T	1/4W 2.7K
R100	ERJ6GEYJ184V	1/10W 180K
R101	ERDS2TJ270T	1/4W 27
R102	ERDS2TJ105T	1/4W 1M
R103	ERDS2TJ332T	1/4W 3.3K
R104	ERDS2TJ682T	1/4W 6.8K
R105	ERJ6GEYJ223V	1/10W 22K
R107	ERDS2TJ223T	1/4W 22K
R108	ERDS2TJ822T	1/4W 8.2K
R109	ERJ6GEYJ682V	1/10W 6.8K
R110	ERDS2TJ473T	1/4W 47K
R111	ERDS2TJ473T	1/4W 47K
R112	ERJ6GEYJ223V	1/10W 22K
R113	ERJ6GEYJ102V	1/10W 1K
R116	ERJ6GEYJ471V	1/10W 470
R117	ERDS2TJ103T	1/4W 10K
R118	ERJ6GEYJ473V	1/10W 47K
R119	ERJ6GEYJ471V	1/10W 470
R120	ERDS2TJ182T	1/4W 1.8K
R121	ERJ6GEYJ103V	1/10W 10K
R122	ERDS2TJ473T	1/4W 47K
R123	ERJ6GEYJ103V	1/10W 10K
R124	ERJ6GEYJ222V	1/10W 2.2K
R127	ERJ6GEYJ104V	1/10W 100K
R128	ERJ6GEYJ104V	1/10W 100K
R129	ERJ6GEYJ154V	1/10W 150K
R130	ERJ6GEYJ820V	1/10W 82
R131	ERJ6GEYJ474V	1/10W 470K
R132	ERJ6GEYJ153V	1/10W 15K
R133	ERDS2TJ101T	1/4W 100
R134	ERJ6GEYJ474V	1/10W 470K
R135	ERJ6GEYJ153V	1/10W 15K
R136	ERJ6GEYJ820V	1/10W 82
R143	ERJ6GEYJ104V	1/10W 100K
R144	ERJ6GEYJ223V	1/10W 22K
R145	ERJ6GEYJ104V	1/10W 100K
R147	ERDS2TJ101T	1/4W 100
R161	ERDS2TJ273T	1/4W 27K
R162	ERDS2TJ273T	1/4W 27K
R168	ERJ6GEYJ682V	1/10W 6.8K
R169	ERJ6GEYJ222V	1/10W 2.2K
R170	ERJ6GEYJ472V	1/10W 4.7K
R171	ERDS2TJ101T	1/4W 100
R172	ERJ6GEYJ102V	1/10W 1K
R173	ERJ6GEYJ222V	1/10W 2.2K
R174	ERJ6GEYJ103V	1/10W 10K
R175	ERJ6GEYJ103V	1/10W 10K
R176	ERJ6GEYJ223V	1/10W 22K
R178	ERDS2TJ102T	1/4W 1K

Ref. No.	Part No.	Values & Remarks
R179	ERDS2TJ104T	1/4W 100K
R180	ERDS2TJ331T	1/4W 330
R181	ERDS2TJ104T	1/4W 100K
R182	ERDS2TJ331T	1/4W 330
R183	ERJ6GEYJ681V	1/10W 680
R184	ERJ6GEYJ103V	1/10W 10K
R185	ERJ6GEYJ102V	1/10W 1K
R186	ERDS2TJ103T	1/4W 10K
R189	ERJ6GEYJ102V	1/10W 1K
R190	ERJ6GEYJ102V	1/10W 1K
R191	ERJ6GEYJ103V	1/10W 10K
R192	ERDS2TJ103T	1/4W 10K
R193	ERJ6GEYJ102V	1/10W 1K
R194	ERJ6GEYJ102V	1/10W 1K
R195	ERJ6GEYJ154V	1/10W 150K
R196	ERJ6GEYJ472V	1/10W 4.7K
R198	ERJ6GEYJ473V	1/10W 47K
R199	ERJ6GEYJ103V	1/10W 10K
R200	ERJ6GEYJ103V	1/10W 10K
R201	ERJ6GEYJ103V	1/10W 10K
R202	ERJ6GEYJ332V	1/10W 3.3K
R203	ERJ6GEYJ332V	1/10W 3.3K
R204	ERJ6GEYJ474V	1/10W 470K
R205	ERJ6GEYJ474V	1/10W 470K
R206	ERJ6GEYJ821V	1/10W 820
R207	ERJ6GEYJ821V	1/10W 820
R208	ERDS2TJ103T	1/4W 10K
R209	ERDS2TJ103T	1/4W 10K
R210	ERJ6GEYJ681V	1/10W 680
R211	ERJ6GEYJ221V	1/10W 220
R212	ERJ6GEYJ221V	1/10W 220
R213	ERJ6GEYJ103V	1/10W 10K
R301	RRJ6SEYJ474E	1/10W 470K
R302	ERJ6GEYJ222V	1/10W 2.2K
R303	ERJ6GEYJ222V	1/10W 2.2K
R304	ERJ6GEYJ183V	1/10W 18K
R305	RRJ6SEYJ393E	1/10W 39K
R306	RRJ6SEYJ392E	1/10W 3.9K
R307	ERJ8GEYJ682V	1/8W 6.8K
R308	RRJ6SEYJ824E	1/10W 820K
R309	ERJ6GEYJ681V	1/10W 680
R310	RRJ6SEYJ392E	1/10W 3.9K
R311	ERJ6GEYJ121V	1/10W 120
R312	ERJ6GEYJ104V	1/10W 100K
R313	ERJ6GEYJ222V	1/10W 2.2K
R314	ERDS2TJ104T	1/4W 100K
R315	RRJ6SEYJ221E	1/10W 220
R316	RRJ6SEYJ474E	1/10W 470K
R317	ERJ6GEYJ222V	1/10W 2.2K
R318	RRJ6SEYJ393E	1/10W 39K
R319	ERJ6GEYJ183V	1/10W 18K
R320	RRJ6SEYJ682E	1/10W 6.8K
R321	RRJ6SEYJ392E	1/10W 3.9K
R322	RRJ6SEYJ824E	1/10W 820K
R323	ERJ6GEYJ121V	1/10W 120
R324	RRJ6SEYJ392E	1/10W 3.9K
R325	ERJ6GEYJ681V	1/10W 680
R326	ERJ6GEYJ103V	1/10W 10K
R327	ERJ6GEYJ103V	1/10W 10K
R328	ERJ8GEYJ104V	1/8W 100K
R329	ERJ6GEYJ333V	1/10W 33K
R330	ERJ6GEYJ104V	1/10W 100K
R331	ERJ6GEYJ102V	1/10W 1K
R332	ERDS2TJ563T	1/4W 56K
R333	ERJ6GEYJ472V	1/10W 4.7K
R334	ERJ6GEYJ104V	1/10W 100K
R335	ERDS2TJ154T	1/4W 150K
R336	ERJ6GEYJ103V	1/10W 10K
R337	ERJ6GEYJ104V	1/10W 100K
R338	ERJ6GEYJ103V	1/10W 10K
R339	ERJ6GEYJ151V	1/10W 150
R340	ERJ6GEYJ271V	1/10W 270
R341	ERJ6GEYJ394V	1/10W 390K
R342	RRJ6SEYJ221E	1/10W 220
R343	ERJ6GEYJ394V	1/10W 390K
R344	ERJ8GEYJ392V	1/8W 3.9K
R345	RRJ6SEYJ332E	1/10W 3.3K
R346	ERJ6GEYJ153V	1/10W 15K
R347	ERJ6GEYJ564V	1/10W 560K
R348	RRJ6SEYJ471E	1/10W 470
R349	ERJ6GEYJ222V	1/10W 2.2K
R350	ERJ6GEYJ102V	1/10W 1K
R351	ERJ6GEYJ222V	1/10W 2.2K
R352	ERJ6GEYJ564V	1/10W 560K
R353	ERJ6GEYJ473V	1/10W 47K
R354	ERJ6GEYJ473V	1/10W 47K
R355	ERJ6GEYJ684V	1/10W 680K
R356	ERDS2TJ103T	1/4W 10K
R357	ERJ6GEYJ102V	1/10W 1K
R358	ERJ6GEYJ101V	1/10W 100
R359	RRJ6SEYJ332E	1/10W 3.3K
R360	RRJ6SEYJ332E	1/10W 3.3K
R361	RRJ6SEYJ332E	1/10W 3.3K
R362	RRJ6SEYJ332E	1/10W 3.3K
R363	RRJ6SEYJ471E	1/10W 470
R364	ERJ6GEYJ681V	1/10W 680
R367	ERJ6GEYJ473V	1/10W 47K
R368	ERJ6GEYJ101V	1/10W 100
R369	ERJ6GEYJ104V	1/10W 100K
R370	ERJ6GEYJ101V	1/10W 100
R374	ERJ6GEYJ222V	1/10W 2.2K
R375	ERJ6GEYJ391V	1/10W 390
R376	ERJ6GEYJ391V	1/10W 390
R377	RRJ6SEYJ332E	1/10W 3.3K
R378	ERJ6GEYJ683V	1/10W 68K
R379	ERJ6GEYJ683V	1/10W 68K
R380	RRJ6SEYJ392E	1/10W 3.9K
R381	ERJ6GEYJ472V	1/10W 4.7K
R382	ERJ6GEYJ472V	1/10W 4.7K
R401	ERJ6GEYJ563V	1/10W 56K
R402	ERJ6GEYJ563V	1/10W 56K
R403	ERJ6GEYJ473V	1/10W 47K
R404	ERJ6GEYJ473V	1/10W 47K
R405	ERJ6GEYJ473V	1/10W 47K
R406	ERJ6GEYJ473V	1/10W 47K
R407	ERJ6GEYJ2R2V	1/10W 2.2
R408	ERJ6GEYJ153V	1/10W 15K
R409	ERJ6GEYJ153V	1/10W 15K
R411	RRJ6SEYJ824E	1/10W 820K
R412	RRJ6SEYJ221E	1/10W 220
R413	RRJ6SEYJ471E	1/10W 470
R414	RRJ6SEYJ824E	1/10W 820K
R415	RRJ6SEYJ471E	1/10W 470
R416	RRJ6SEYJ332E	1/10W 3.3K
R417	RRJ6SEYJ221E	1/10W 220
R418	ERJ6GEYJ223V	1/10W 22K
R419	ERJ6GEYJ223V	1/10W 22K
R420	ERJ6GEYJ103V	1/10W 10K
R421	ERJ6GEYJ103V	1/10W 10K
R422	ERJ6GEYJ224V	1/10W 220K
R424	ERJ6GEYJ182V	1/10W 1.8K
R425	ERJ6GEYJ182V	1/10W 1.8K
R426	RRJ6SEYJ221E	1/10W 220
R427	RRJ6SEYJ221E	1/10W 220
R428	ERJ6GEYJ223V	1/10W 22K
R429	ERJ6GEYJ223V	1/10W 22K
R430	ERJ6GEYJ104V	1/10W 100K
R432	ERJ6GEYJ222V	1/10W 2.2K
R433	ERJ6GEYJ3R3V	1/10W 3.3
R434	ERJ6GEYJ3R3V	1/10W 3.3
R435	ERJ6GEYJ3R3V	1/10W 3.3
R438	ERJ6GEYJ822V	1/10W 8.2K
R439	ERJ6GEYJ394V	1/10W 390K
R440	RRJ6SEYJ332E	1/10W 3.3K
R441	ERJ6GEYJ561V	1/10W 560
R443	ERJ6GEYJ473V	1/10W 47K
R444	ERJ6GEYJ473V	1/10W 47K
R445	ERJ6GEYJ822V	1/10W 8.2K
R446	ERJ6GEYJ394V	1/10W 390K
R447	ERJ6GEYJ561V	1/10W 560
R448	RRJ6SEYJ332E	1/10W 3.3K
R449	RRJ6SEYJ332E	1/10W 3.3K
R452	ERJ6GEYJ104V	1/10W 100K
R454	ERJ6GEYJ220V	1/10W 22
R455	ERJ6GEYJ3R3V	1/10W 3.3
R456	ERJ6GEYJ3R3V	1/10W 3.3

Ref. No.	Part No.	Values & Remarks
R457	ERJ6GEYJ3R3V	1/10W 3.3
R458	ERJ8GEYJ104V	1/8W 100K
R464	ERJ6GEYJ223V	1/10W 22K
R465	ERJ6GEYJ223V	1/10W 22K
R467	RRJ6SEYJ474E	1/10W 470K
R468	ERJ6GEYJ103V	1/10W 10K
R470	ERJ6GEYJ220V	1/10W 22
R471	ERJ6GEYJ102V	1/10W 1K
R472	ERJ6GEYJ102V	1/10W 1K
R473	ERJ6GEYJ102V	1/10W 1K
R474	ERJ6GEYJ220V	1/10W 22
R475	ERJ6GEYJ220V	1/10W 22
R476	ERJ6GEYJ102V	1/10W 1K
R477	ERJ6GEYJ102V	1/10W 1K
R478	ERJ6GEYJ102V	1/10W 1K
R479	ERJ6GEYJ220V	1/10W 22
R480	ERJ6GEYJ102V	1/10W 1K
R481	ERJ6GEYJ102V	1/10W 1K
R501	ERJ6GEYJ101V	1/10W 100
R502	ERJ6GEYJ101V	1/10W 100
R505	RRJ6SEYJ332E	1/10W 3.3K
R506	RRJ6SEYJ332E	1/10W 3.3K
R701	ERJ6GEYJ103V	1/10W 10K
R702	ERDS2TJ222T	1/4W 2.2K
R703	ERJ6GEYJ103V	1/10W 10K
R704	ERDS2TJ471T	1/4W 470
R705	ERJ6GEYJ224V	1/10W 220K
R706	ERJ6GEYJ224V	1/10W 220K
R707	ERJ6GEYJ224V	1/10W 220K
R708	ERJ6GEYJ224V	1/10W 220K
R709	ERJ6GEYJ224V	1/10W 220K
R710	ERJ6GEYJ275V	1/10W 2.7M
R711	ERJ6GEYJ275V	1/10W 2.7M
R712	ERJ6GEYJ103V	1/10W 10K
R713	ERJ6GEYJ103V	1/10W 10K
R716	ERJ6GEYJ473V	1/10W 47K
R717	ERJ6GEYJ473V	1/10W 47K
R718	ERJ6GEYJ474V	1/10W 470K
R721	ERJ6GEYJ104V	1/10W 100K
R722	ERJ6GEYJ224V	1/10W 220K
R723	ERJ6GEYJ104V	1/10W 100K
R724	ERJ6GEYJ103V	1/10W 10K
R725	ERJ6GEYJ473V	1/10W 47K
R728	ERJ6GEYJ103V	1/10W 10K
R729	ERG12SJ221	1/2W 220
R730	ERJ6GEYJ102V	1/10W 1K
R731	ERJ6GEYJ222V	1/10W 2.2K
R732	ERJ6GEYJ222V	1/10W 2.2K
R733	ERJ6GEYJ104V	1/10W 100K
R734	ERJ6GEYJ105V	1/10W 1M
R735	ERJ6GEYJ102V	1/10W 1K
R736	ERJ6GEYJ103V	1/10W 10K

Ref. No.	Part No.	Values & Remarks
R737	ERJ6GEYJ333V	1/10W 33K
R738	ERJ6GEYJ154V	1/10W 150K
R739	ERJ6GEYJ470V	1/10W 47
R740	ERJ6GEYJ152V	1/10W 1.5K
R741	ERJ6GEYJ152V	1/10W 1.5K
R742	ERJ6GEYJ683V	1/10W 68K
R743	ERJ6GEYJ683V	1/10W 68K
R744	ERJ6GEYJ683V	1/10W 68K
R745	ERJ6GEYJ333V	1/10W 33K
R746	ERJ6GEYJ222V	1/10W 2.2K
R747	ERJ6GEYJ222V	1/10W 2.2K
R748	ERJ6GEYJ105V	1/10W 1M
R749	ERJ6GEYJ182V	1/10W 1.8K
R750	ERJ6GEYJ103V	1/10W 10K
R751	ERJ6GEYJ103V	1/10W 10K
		CHIP JAMPER(S)
RJ1	ERJ6GEY0R00V	
RJ2	ERJ6GEY0R00V	
RJ4	ERJ6GEY0R00V	
RJ5	ERJ6GEY0R00V	
RJ7	ERJ6GEY0R00V	
RJ8	ERJ6GEY0R00V	
RJ9	ERJ6GEY0R00V	
RJ352	ERJ6GEY0R00V	
RJ353	ERJ6GEY0R00V	
RJ354	ERJ6GEY0R00V	
RJ355	ERJ6GEY0R00V	
RJ357	ERJ6GEY0R00V	
RJ360	ERJ6GEY0R00V	
RJ371	ERJ8GEY0R00V	
RJ372	ERJ8GEY0R00V	
RJ373	ERJ8GEY0R00V	
RJ374	ERJ8GEY0R00V	
RJ375	ERJ8GEY0R00V	
RJ376	ERJ8GEY0R00V	
RJ451	ERJ6GEY0R00V	
RJ452	ERJ6GEY0R00V	
RJ453	ERJ6GEY0R00V	
RJ471	ERJ8GEY0R00V	
RJ472	ERJ8GEY0R00V	
RJ473	ERJ8GEY0R00V	
RJ571	ERJ8GEY0R00V	
RJ572	ERJ8GEY0R00V	
		CAPACITORS
C1	ECUV1H220KCN	50V 22P
C2	ECUV1H220KCN	50V 22P
C3	ECUV1H150KCN	50V 15P
C4	ECUV1H102MBN	50V 1000P

Ref. No.	Part No.	Values & Remarks
C5	ECUV1H102MBN	50V 1000P
C6	ECUV1H102MBN	50V 1000P
C7	ECUV1E103MBN	25V 0.01U
C9	ECUV1H010CCN	50V 1P
C10	ECUV1H150KCN	50V 15P
C12	ECUV1H150KCN	50V 15P
C13	ECUV1H390KCN	50V 39P
C14	ECUV1H180KCN	50V 18P
C15	ECEA0JK220B	6.3V 22U
C16	ECUV1H470KCN	50V 47P
C17	ECUV1E333MDN	25V 0.033U
C18	ECUV1E223ZFN	25V 0.022U
C19	ECUV1E683MDM	25V 0.068U
C20	ECUV1E223ZFN	25V 0.022U
C21	ECUV1E333MDN	25V 0.033U
C22	ECEA1HK010B	50V 1U
C23	ECEA1CK470B	16V 47U
C24	ECUV1E223MBN	25V 0.022U
C25	ECUV1E223MBN	25V 0.022U
C26	ECEA1EK4R7B	25V 4.7U
C27	ECEA1HKR33B	50V 0.33U
C28	ECUV1H331KN	50V 330P
C29	ECUV1E223ZFN	25V 0.022U
C30	ECEA1CK470B	16V 47U
C31	ECUV1E223ZFN	25V 0.022U
C32	ECEA1HKN010B	50V 1U
C33	ECEA1HK010B	50V 1U
C34	ECUV1E223ZFN	25V 0.022U
C35	ECEA1HKR22B	50V 0.22U
C36	ECEA1HK010B	50V 1U
C37	ECEA1HKN010B	50V 1U
C38	ECUV1E103MBN	25V 0.01U
C39	ECEA1HK010B	50V 1U
C40	ECUV1E103MBN	25V 0.01U
C41	ECUV1E103MBN	25V 0.01U
C42	ECUV1E223MBN	25V 0.022U
C43	ECUV1E333MDN	25V 0.033U
C44	ECEA1EK4R7B	25V 4.7U
C46	ECEA1CU102	16V 1000U
C47	ECEA1AK220B	10V 22U
C48	ECUV1H332MBN	50V 3300P
C49	ECEA1HK010B	50V 1U
C50	ECEA1HK010B	50V 1U
C51	ECEA1CK100B	16V 10U
C52	ECSF1CE105E	16V 1U
C53	ECSF1CE105E	16V 1U
C54	ECEA1EK4R7B	25V 4.7U
C55	ECEA1EK3R3B	25V 3.3U
C56	ECSF1CE105E	16V 1U
C57	ECSF1CE105E	16V 1U
C58	ECEA0JK330B	6.3V 33U
C59	ECUV1E223MBN	25V 0.022U

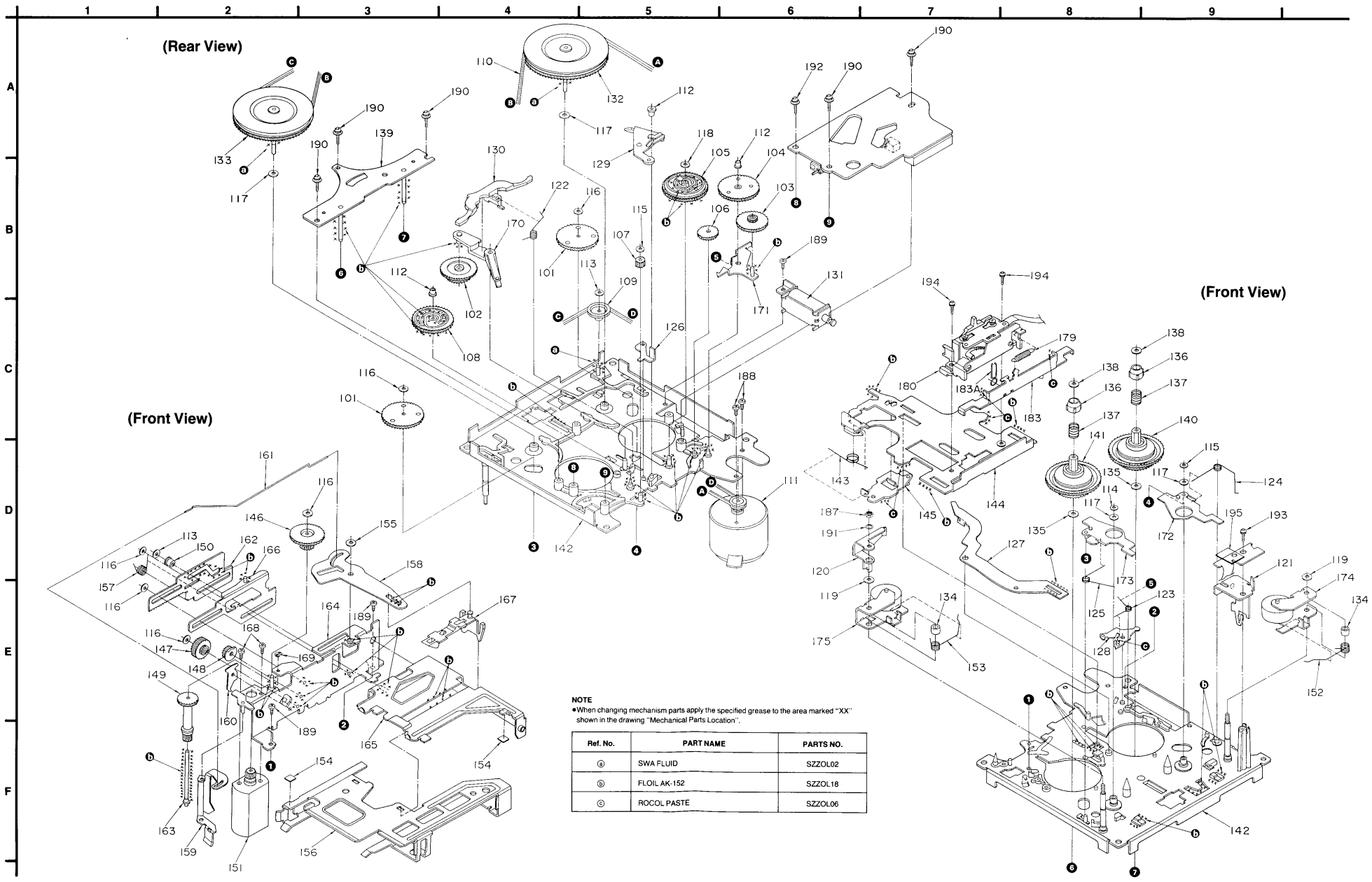
Ref. No.	Part No.	Values & Remarks
C60	ECEA1CK100B	16V 10U
C61	ECEA1CK100B	16V 10U
C62	ECEA1AKA221	10V 220U
C63	ECEA1HK010B	50V 1U
C64	ECEA1HK010B	50V 1U
C65	ECUV1E223ZFN	25V 0.022U
C66	ECUV1H390KCN	50V 39P
C67	ECUV1E223ZFN	25V 0.022U
C68	ECUV1E223ZFN	25V 0.022U
C69	ECUV1E223ZFN	25V 0.022U
C70	ECUV1H150KCN	50V 15P
C71	ECQP2A471GZ	100V 470P
C72	ECUV1E103MBN	25V 0.01U
C73	ECUV1E223ZFN	25V 0.022U
C74	ECEA1CK100B	16V 10U
C75	ECEA1HKR47B	50V 0.47U
C76	ECUV1E223ZFN	25V 0.022U
C77	ECUV1E103MBN	25V 0.01U
C78	ECEA1HKR47B	50V 0.47U
C79	ECEA1CK101	16V 100U
C80	ECEA1HK010B	50V 1U
C81	ECEA0JK330B	6.3V 33U
C82	ECUV1E223ZFN	25V 0.022U
C83	ECEA1HK010B	50V 1U
C84	ECUV1E223ZFN	25V 0.022U
C85	ECEA1CK470B	16V 47U
C86	ECUV1E223ZFN	25V 0.022U
C87	ECUV1E223ZFN	25V 0.022U
C88	ECUV1E333MDN	25V 0.033U
C89	ECUV1H030CCN	50V 3P
C90	ECUV1H050DCN	50V 5P
C91	ECUV1E333MDN	25V 0.033U
C92	ECUV1H221KN	50V 220P
C93	ECUV1H472MBN	50V 4700P
C94	ECUV1E223ZFN	25V 0.022U
C95	ECUV1H391KN	50V 390P
C96	ECUV1H102MBN	50V 1000P
C97	ECUV1E103MBN	25V 0.01U
C98	ECEA1CK100B	16V 10U
C99	ECUV1E103MBN	25V 0.01U
C100	ECUV1H331KN	50V 330P
C101	ECEA0JK330B	6.3V 33U
C102	ECUV1E103MBN	25V 0.01U
C103	ECUV1H471KN	50V 470P
C104	ECUV1H391KN	50V 390P
C105	ECUV1E103MBN	25V 0.01U
C106	ECUV1E333MDN	25V 0.033U
C107	ECEA1CK101	16V 100U
C108	ECUV1H102MBN	50V 1000P
C109	ECEA1HKN010B	50V 1U
C110	ECUV1E333MDN	25V 0.033U
C111	ECEA0JK220B	6.3V 22U
C112	ECSF1CE105E	16V 1U
C113	ECUV1H101KN	50V 100P
C114	ECUV1H471KN	50V 470P
C115	ECUV1E683MDM	25V 0.068U
C116	ECUV1E333MDN	25V 0.033U
C117	ECUV1E333MDN	25V 0.033U
C120	ECEA1CK101	16V 100U
C121	ECEA1CK101	16V 100U
C122	ECEA1EK3R3B	25V 3.3U
C124	ECEA1CK101	16V 100U
C125	ECEA1EK3R3B	25V 3.3U
C126	ECEA1CK100B	16V 10U
C127	ECEA1CK100B	16V 10U
C128	ECUV1H681KN	50V 680P
C129	ECUV1H681KN	50V 680P
C130	ECQV1H104JZ3	50V 0.1U
C131	ECQV1H104JZ3	50V 0.1U
C132	ECEA0JK470B	6.3V 47U
C133	ECUV1H682MBN	50V 6800P
C134	ECEA1CK470B	16V 47U
C135	ECUV1H682MBN	50V 6800P
C136	ECEA0JK470B	6.3V 47U
C139	ECEA1HK010B	50V 1U
C140	ECEA1HK010B	50V 1U
C141	ECEA1HK010B	50V 1U
C142	ECEA1CK470B	16V 47U
C150	ECSF1CE105E	16V 1U
C151	ECEA1HK010B	50V 1U
C160	ECSF1CE105E	16V 1U
C161	ECUV1H102MBN	50V 1000P
C162	ECQV1H474JZ	50V 0.47U
C163	ECEA1CK100B	16V 10U
C164	ECUV1E103MBN	25V 0.01U
C165	ECEA1HK0R1B	50V 0.1U
C167	ECUV1H150KCN	50V 15P
C168	ECUV1H100KCN	50V 10P
C169	ECUV1E103MBN	25V 0.01U
C170	ECEA0JU222V	6.3V 2200U
C171	ECEA0JK470B	6.3V 47U
C173	ECUV1H102MBN	50V 1000P
C177	ECUV1H102MBN	50V 1000P
C178	ECUV1H102MBN	50V 1000P
C179	ECUV1H102MBN	50V 1000P
C180	ECUV1H102MBN	50V 1000P
C181	ECUV1H681KN	50V 680P
C182	ECUV1H681KN	50V 680P
C183	ECUV1H681KN	50V 680P
C184	ECUV1E103MBN	25V 0.01U
C185	ECUV1E103MBN	25V 0.01U
C301	ECQB1H223JZ3	50V 0.022U
C302	ECEA1HK2R2B	50V 2.2U
C303	ECUV1H221KN	50V 220P
C304	ECEA1HK010B	50V 1U
C305	ECUV1H221KN	50V 220P
C306	ECEA1HKN010B	50V 1U
C307	ECUV1E103MBN	25V 0.01U
C308	ECUV1E104MBM	25V 0.1U
C309	ECEA1HK010B	50V 1U
C310	ECEA1HK010B	50V 1U
C311	ECQB1H223JZ3	50V 0.022U
C312	ECEA1CU102	16V 1000U
C313	ECUV1H221KN	50V 220P
C314	ECEA1HK2R2B	50V 2.2U
C315	ECEA1HK010B	50V 1U
C316	ECUV1H221KN	50V 220P
C317	ECUV1E103MBN	25V 0.01U
C318	ECUV1E104MBM	25V 0.1U
C319	ECEA1HKN010B	50V 1U
C320	ECEA0JK101B	6.3V 100U
C321	ECEA1HK010B	50V 1U
C322	ECEA1HK010B	50V 1U
C323	ECEA0JK221B	6.3V 220U
C324	ECEA0JK470B	6.3V 47U
C325	ECEA1HKN010B	50V 1U
C326	ECEA1HKN010B	50V 1U
C327	ECEA0JK101B	6.3V 100U
C328	ECUV1E223MBN	25V 0.022U
C329	ECUV1H102MBN	50V 1000P
C330	ECUV1E104MBM	25V 0.1U
C331	ECEA1HK2R2B	50V 2.2U
C332	ECEA1HK010B	50V 1U
C333	ECUV1H103ZFN	50V 0.01U
C334	ECQB1H103JZW	50V 0.01U
C335	ECEA1HKR22B	50V 0.22U
C336	ECUV1H391KN	50V 390P
C338	ECUV1E473MBM	25V 0.047U
C339	ECEA1CK101	16V 100U
C340	ECUV1E103MBN	25V 0.01U
C341	ECUV1H560KCN	50V 56P
C342	ECEA1CK100	16V 10U
C343	ECUV1E473MBM	25V 0.047U
C344	ECEA1CK470B	16V 47U
C345	ECEA1HK010B	50V 1U
C346	ECEA1CK100B	16V 10U
C347	ECUV1E473MBM	25V 0.047U
C348	ECEA1HK010B	50V 1U
C350	ECUV1H103ZFN	50V 0.01U
C351	ECEA1CK100B	16V 10U
C352	ECEA1HK2R2B	50V 2.2U
C353	ECEA0JK470B	6.3V 47U
C354	ECEA1CK470B	16V 47U
C355	ECBT1C103NS5	16V 0.01U
C356	ECBT1C103NS5	16V 0.01U
C358	ECEA1AK330B	10V 33U

Ref. No.	Part No.	Values & Remarks
C359	ECEA1HK2R2B	50V 2.2U
C360	ECUV1H103ZFN	50V 0.01U
C401	ECEA1AU221B	10V 220U
C402	ECEA1HK010B	50V 1U
C403	ECEA1HK010B	50V 1U
C404	ECEA1HK010B	50V 1U
C405	ECEA1HK010B	50V 1U
C406	ECEA1CU471B	16V 470U
C407	ECEA1AU471B	10V 470U
C408	ECUV1E104MBM	25V 0.1U
C409	ECEA0JK220B	6.3V 22U
C410	ECUV1E473MBN	25V 0.047U
C411	ECEA1AK220B	10V 22U
C412	ECUV1E473MBN	25V 0.047U
C413	ECEA0JK220B	6.3V 22U
C414	ECEA1AU471B	10V 470U
C415	ECUV1E104MBM	25V 0.1U
C416	ECEA1CU221	16V 220U
C417	ECQV1H104JZ3	50V 0.1U
C418	ECQV1H104JZ3	50V 0.1U
C419	ECEA1CU221B	16V 220U
C420	ECEA0JU101B	6.3V 100U
C421	ECUV1E333MBM	25V 0.033U
C422	ECUV1H102MBN	50V 1000P
C424	ECEA0JU101B	6.3V 100U
C425	ECQB1H103JZ3	50V 0.01U
C426	ECEA1HK010B	50V 1U
C427	ECEA1HK010B	50V 1U
C428	ECEA1HK010B	50V 1U
C429	ECEA1HK010B	50V 1U
C430	ECEA1AU471B	10V 470U
C431	ECEA1CU221B	16V 220U
C432	ECQV1H104JZ3	50V 0.1U
C433	ECQV1H104JZ3	50V 0.1U
C434	ECQB1H103JZ3	50V 0.01U
C435	ECEA1CU221B	16V 220U
C436	ECEA0JU101B	6.3V 100U
C437	ECUV1E333MBM	25V 0.033U
C438	ECUV1H102MBN	50V 1000P
C440	ECEA0JU101B	6.3V 100U
C441	ECEA1CSS222Z	16V 2200U
C443	ECUV1E104MBM	25V 0.1U
C444	ECUV1E104MBM	25V 0.1U
C445	ECUV1E683MDM	25V 0.068U
C446	ECUV1E683MDM	25V 0.068U
C447	ECUV1E683MDM	25V 0.068U
C448	ECUV1E683MDM	25V 0.068U
C450	ECUV1E104MBM	25V 0.1U
C451	ECEA1EKN3R3B	25V 3.3U
C501	ECEA1CU221B	16V 220U
C502	ECUV1H102ZFM	50V 1000P
C503	ECUV1H102MBN	50V 1000P
C504	ECUV1H102ZFM	50V 1000P
C505	ECUV1H102ZFM	50V 1000P
C506	ECUV1H102ZFM	50V 1000P
C507	ECUV1H102ZFM	50V 1000P
C508	ECUV1H102ZFM	50V 1000P
C509	ECUV1H102ZFM	50V 1000P
C510	ECUV1H102ZFM	50V 1000P
C511	ECUV1H102ZFM	50V 1000P
C512	ECUV1H102ZFM	50V 1000P
C513	ECUV1H102ZFM	50V 1000P
C514	ECUV1H102MBN	50V 1000P
C515	ECUV1H102ZFM	50V 1000P
C516	ECUV1H102ZFM	50V 1000P
C517	ECUV1H102ZFM	50V 1000P
C518	ECUV1H102ZFM	50V 1000P
C519	ECUV1H102MBN	50V 1000P
C520	ECUV1H102ZFM	50V 1000P
C521	ECUV1H102ZFM	50V 1000P
C522	ECUV1H102ZFM	50V 1000P
C523	ECUV1H102ZFM	50V 1000P
C524	ECUV1H102MBN	50V 1000P
C525	ECUV1H102ZFM	50V 1000P
C526	ECUV1H102ZFM	50V 1000P
C528	ECUV1H102ZFM	50V 1000P
C529	ECUV1H103ZFM	50V 0.01U
C530	ECEA1CU221B	16V 220U
C531	ECEA1CU471B	16V 470U
C532	ECQB1H103JZ3	50V 0.01U
C701	ECEA1CK100B	16V 10U
C702	ECUV1H102MBN	50V 1000P
C703	ECUV1E104MBM	25V 0.1U
C704	ECEA1EK4R7B	25V 4.7U
C705	ECEA1HK010B	50V 1U
C706	ECEA1HK0R1B	50V 0.1U
C707	ECUV1E104MBM	25V 0.1U
C708	ECEA1HK010B	50V 1U
C709	ECEA1EK4R7	25V 4.7U
C710	ECEA1CK101	16V 100U
C711	ECEA1HK010B	50V 1U
C712	ECEA0JK221B	6.3V 220U
C713	ECEA1CU102	16V 1000U
C714	ECUV1E223MBN	25V 0.022U
C901	ECEB1CU100S	16V 10U
C902	ECEB1CU100S	16V 10U

Ref. No.	Part No.	Part Name & Description	Remarks
		MECHANISM	
101	RDG0001	GEAR, REWIND	
102	RDG0002	GEAR, SUPPLY	
103	RDG0003	GEAR	
104	RDG0004	GEAR	
105	RXG0013	GEAR ASS'Y	
106	RDG0005	GEAR	
107	RDG0006	GEAR	
108	RDK0002	GEAR	
109	RDP0003-1	PULLEY	
110	RDV0001	BELT	
111	REM0004	MOTOR ASS'Y	
112	RHR3152ZA	BUSH	
113	RHW12008	WASHER	
114	RHW14003	WASHER	
115	RHW15002	WASHER	
116	RHW17002	WASHER	
117	RHW20003	WASHER	
118	RHW21009	WASHER	
119	RHW26003	WASHER	
120	RMA0005	GUIDE	
121	RMA0007	ANGLE	
122	RMB0005	SPRING	
123	RMB0010	SPRING	
124	RMB0012	SPRING	
125	RMB0013	SPRING	
126	RML0008	LEVER DETECTOR	
127	RML0011	LEVER	
128	RML0012	LEVER	
129	RML0018	LEVER	
130	RMM0005	ROD	
131	REQ0027	SOLENOIDE ASS'Y	
132	RXF0001	FLYWHEEL(F)	
133	RXF0002	FLYWHEEL(R)	
134	RNB277A	CURLER	
135	QBW2016	STOPPER RING	
136	RDR0005	REEL CAP	
137	RMB0001	SPRING	
138	RNW1322A	WASHER	
139	RXA0012	CHASSIS, REEL TABLE	
140	RXR0002	REEL TABLE	
141	RXR0003	REEL TABLE	
142	RXK0037	CHASSIS	
143	RMB0009	SPRING	
144	RMK0007	MAIN HEAD BASE	
145	RXL0030	SUB HEAD BASE	
146	RDG0010	GEAR	
147	RDG0011	GEAR	
148	RDG0012	GEAR	
149	RDG0013	GEAR	

Ref. No.	Part No.	Part Name & Description	Remarks
150	RDP0001	ROLLER	
151	REM0005	ROADING MOTOR	
152	RMB0007	SPRING, PRESSURE ROLLER	
153	RMB0008	SPRING, PRESSURE ROLLER	
154	RMF0060	SHEET	
155	RHW26003	WASHER	
156	RMA0006	CASSETTE TAPE HOLDER	
157	RMB0011	EJECT SPRING	
158	RML0013	EJECT ARM	
159	RML0015	LEVER	
160	RML0016	LEVER	
161	RMM0001	ROD	
162	RMM0004	SLIDER	
163	RMS0020	SHAFT	
164	RXK0039	GUIDE	
165	RXL0031	LIFT ARM	
166	RXM0010	EJECT SLIDER	
167	RXM0011	LEVER	
168	XQN2+CM25	SCREW	
169	XUC12FP	E-RING	
170	RXL0026	LEVER, FF	
171	RXL0027	LEVER	
172	RXL0028	ARM(F)	
173	RXL0029	ARM(R)	
174	RXP0023	PRESSURE ROLLER(F)	
175	RXP0024	PRESSURE ROLLER(R)	
179	RMB0004	SPRING	
180	RXN0009	HEAD BASE ASS'Y	
183	RXM0009	ROD ASS'Y	
183A	RMB0006	SPRING	
187	XNG2B	NUT	
188	XQN2+CM25	SCREW	
189	XTN2+4F	SCREW	
190	XTW2+6S	SCREW	
191	XWA2B	WASHER	
192	XYC2+JF10	SCREW	
193	XYC26+CJ6	SCREW	
194	XSB2D5	SCREW	
195	RKN0014	SHEET	

MECHANISM PARTS LOCATION

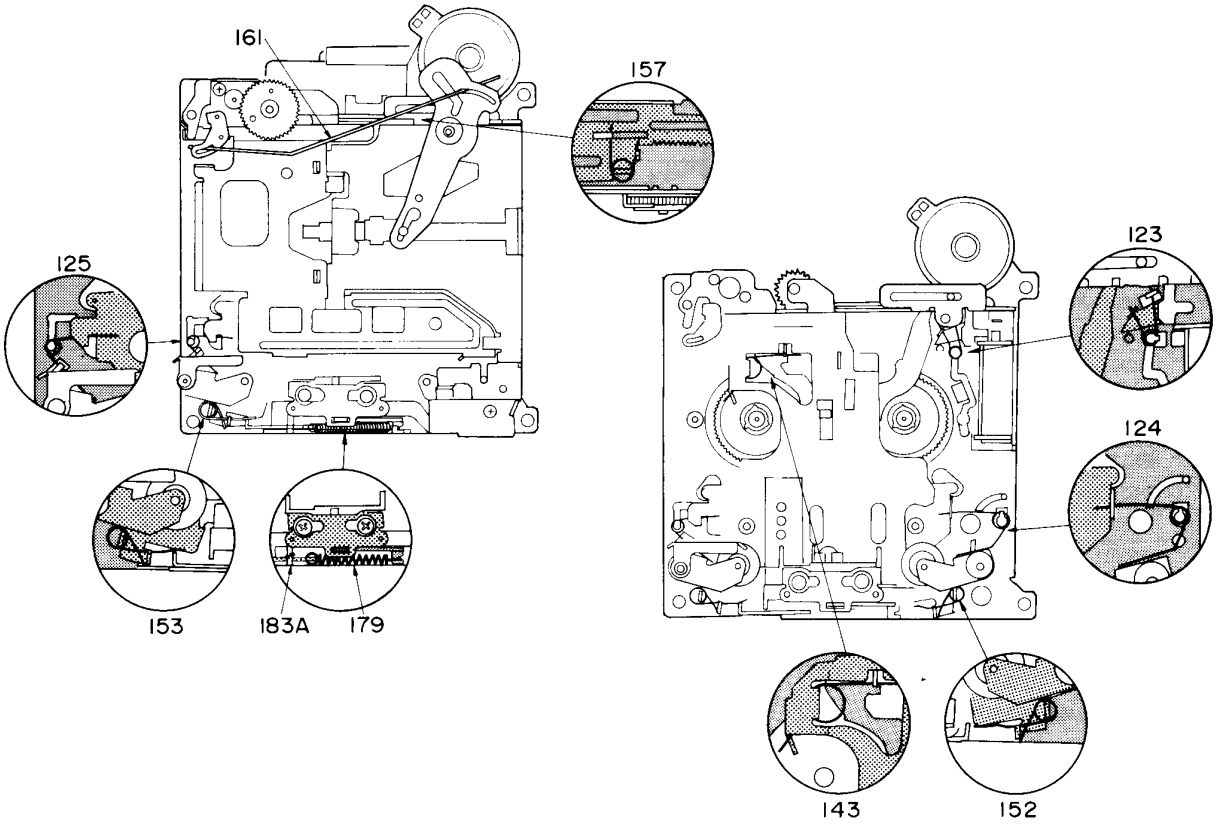


NOTE
•When changing mechanism parts apply the specified grease to the area marked "XX" shown in the drawing "Mechanical Parts Location".

Ref. No.	PART NAME	PARTS NO.
ⓐ	SWA FLUID	SZZOL02
ⓑ	FLOIL AK-152	SZZOL18
ⓒ	ROCOL PASTE	SZZOL06

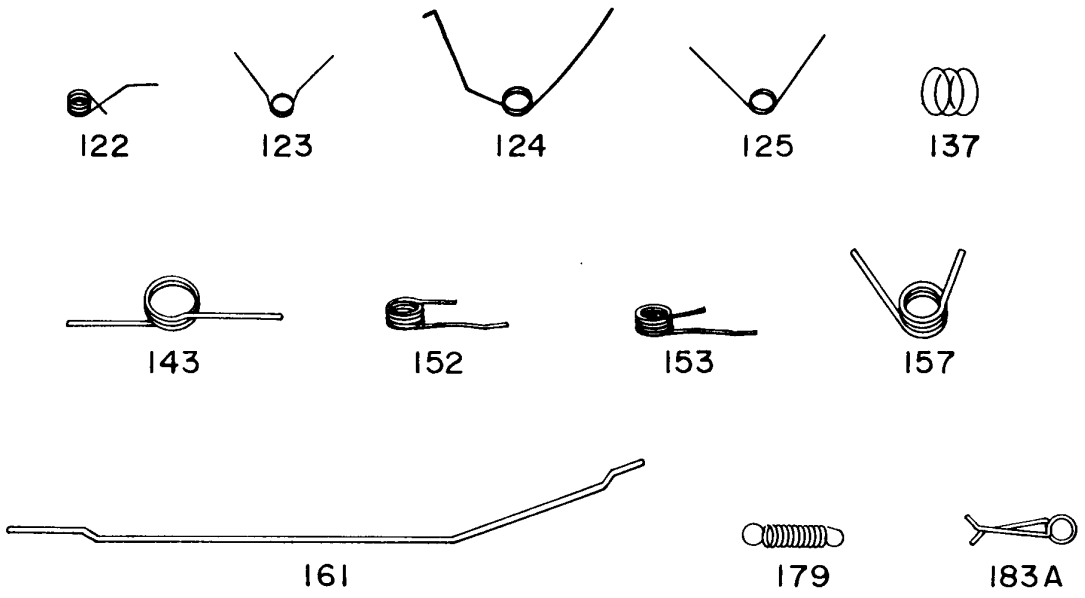
■ SPRING LOCATION

●Front View



■ SPRING ILLUSTRATION

The illustration shows the actual size of the springs so it can be used to check their shapes.
(The illustration shows the springs separated from the mechanism.)

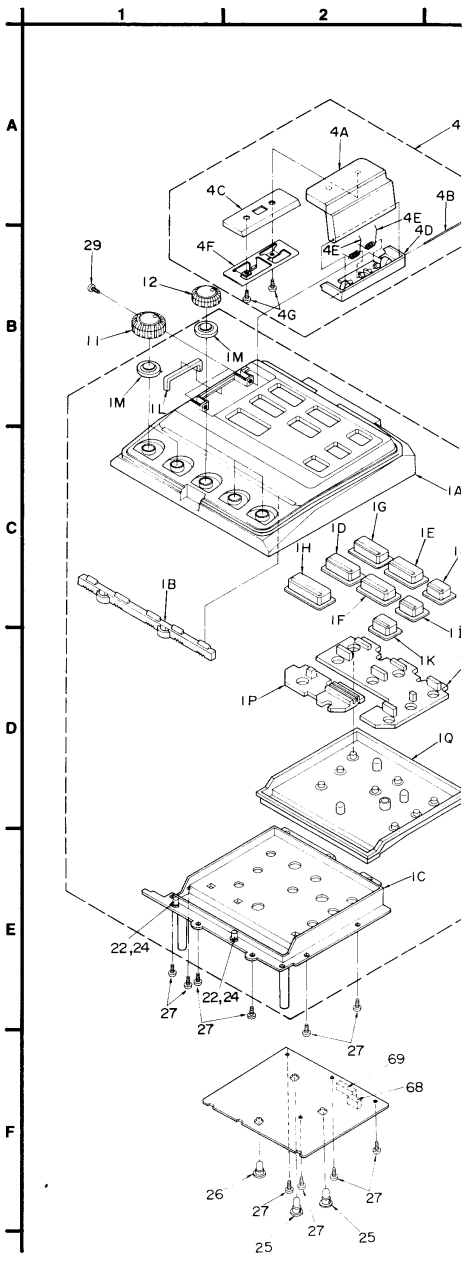


Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS	
1	RFKGMG30PAGA	FRONT PANEL ASS'Y(A)	
1A	RFKGMG30PAGB	FRONT PANEL ASS'Y(B)	
1B	RFKNMG30PAGC	LENS ASS'Y	
1C	RMKD018	CHASSIS	
1D	RGUD046-H	BUTTON, AM/FM	
1E	RGUD047-H	BUTTON, HEAD SET/SP.	
1F	RGUD048-H	BUTTON, PRO/CH	
1G	RGUD049-H	BUTTON, FUNCTION SEL.	
1H	RGUD050-H	BUTTON, STOP/EJECT	
1I	RGUD051-H	BUTTON, MEMORY	
1J	RGUD052-H	BUTTON, AMBIENCE	
1K	RGUD188-H	BUTTON, SEEK SCAN	
1L	RHG1200ZB	RUBBER	
1M	RHG2128ZA	RUBBER	
1O	RKWD010	LENS	
1P	RKWD011	LENS	
1Q	RMGD019	RUBBER(SWITCH S1)	
2	RFKKMG30PAG	CHASSIS ASS'Y	
2A	RUQ97ZA	SPRING	
2B	RUB563ZA	LEVER	
3	RFKNMG30PAGA	MECHNISM ANGLE ASS'Y	
4	RYFD040	CASSETTE LID ASS'Y	
4A	RFKLMG30PAG	CASSETTE COVER	
4B	RDF3120ZA	SHAFT	
4C	RHG2129ZA	RUBBER	
4D	RKE610ZA-1	HOLDER	
4E	RME0013	SPRING	
4F	RME458ZA	ANGLE	
4G	XTV26+6JFZ	SCREW	
5	RFKNMG30PAGB	CONNECTOR ANGLE ASS'Y	
6	RKF917ZA	REAR PANEL	
7	XTB3+12J	SCREW	
8	XTB3+6FFZ	SCREW	
9	XTB3+8J	SCREW	
10	1KEA1500AZA	ANGLE	
11	RBN9004ZA-0	KNOB, VOLUME	
12	RBN9005ZA-0	KNOB, MUTE/AVC/TONE	
13	RHE5183ZA	SCREW	
14	RHE5190ZA	SCREW	
15	RHR177ZA	CLAMPER	
16	RHR182ZA	CLAMPER	
17	RME144ZA	CLAMPER	
18	RMR122ZA	ANGLE	
19	RUL1000ZA	ANGLE	
20	RUL1042ZA	ANGLE	
21	RUL1043ZA	ANGLE	
22	RHG2252A-2	RUBBER	
24	XAMR001SA	NEON LAMP(PL4.5)	
25	XAMR011SA	NEON LAMP(PL1.3)	

Ref. No.	Part No.	Part Name & Description	Remarks
26	XAMR011SB	NEON LAMP(PL2)	
27	XTB3+10J	SCREW	
28	XNS9D	NUT	
29	XTB3+10J	SCREW	
30	XTB3+6F	SCREW	
31	XTB3+8F	SCREW	
32	XTB3+8J	SCREW	
33	XYN3+F12	SCREW	
34	XYN3+F15	SCREW	
35	RJE200ZA	CORD	
36	RJS163ZB-H	SOCKET	
37	RJS2L3ZA-X	SOCKET(2P)	
38	RJT707ZA-X	TERMINAL	
39	XTB3+6F	SCREW	
41	RUB521ZA	ARM	
42	RUD90ZB	SPRING	
43	RUL978ZB	ANGLE	
44	RJP15G18ZA	PLUG(15P)	
45	RJP2G9YA	PLUG(2P)	
46	RJP5G27ZA	PLUG(5P)	
47	RJP6G18ZA	PLUG(6P)	
48	RJP6G9YA	PLUG(6P)	
49	RJP8G18ZA	PLUG(8P)	
50	RJP9G18ZA	PLUG(9P)	
52	RMC1153ZA	SHIELD COVER	
53	RJE248ZA	CONNECTOR CORD ASS'Y	
54	RJP11G4YA	PLUG(11P)	
55	RJP12G18ZA	PLUG(12P)	
56	RJP30A13ZA	PLUG	
57	RJP4G18ZA	PLUG(4P)	
58	RJP8G18ZA	PLUG(8P)	
59	RMC1154ZA	SHIELD COVER	
60	RMC1156ZA	SHIELD COVER	
61	RJS3L10ZA-X	SOCKET(3P)	
62	RJS4L10ZA-X	SOCKET(4P)	
63	RJS4L4ZA-X	SOCKET(4P)	
64	RJS8L10ZA-X	SOCKET(8P)	
65	RJS8L4ZA-X	SOCKET(8P)	
66	RJT807ZB-X	TERMINAL	
67	RJT825ZA-X	TERMINAL	
68	RJP6G18ZA	PLUG(6P)	
69	3JSA1500AZA	SOCKET ASS'Y	
70	2JSA1500AZA6	SOCKET ASS'Y	
71	2JSA1500AZA1	SOCKET ASS'Y	
72	2JSA1500AZA2	SOCKET ASS'Y	
73	REE0111	SOCKET ASS'Y	
74	REE0112	SOCKET ASS'Y	
75	RHR177ZA	CLAMPER	
76	RMA0230	ANGLE	
77	RMR0053	ANGLE	
78	RMR0183	ANGLE	
79	XTB3+6F	SCREW	

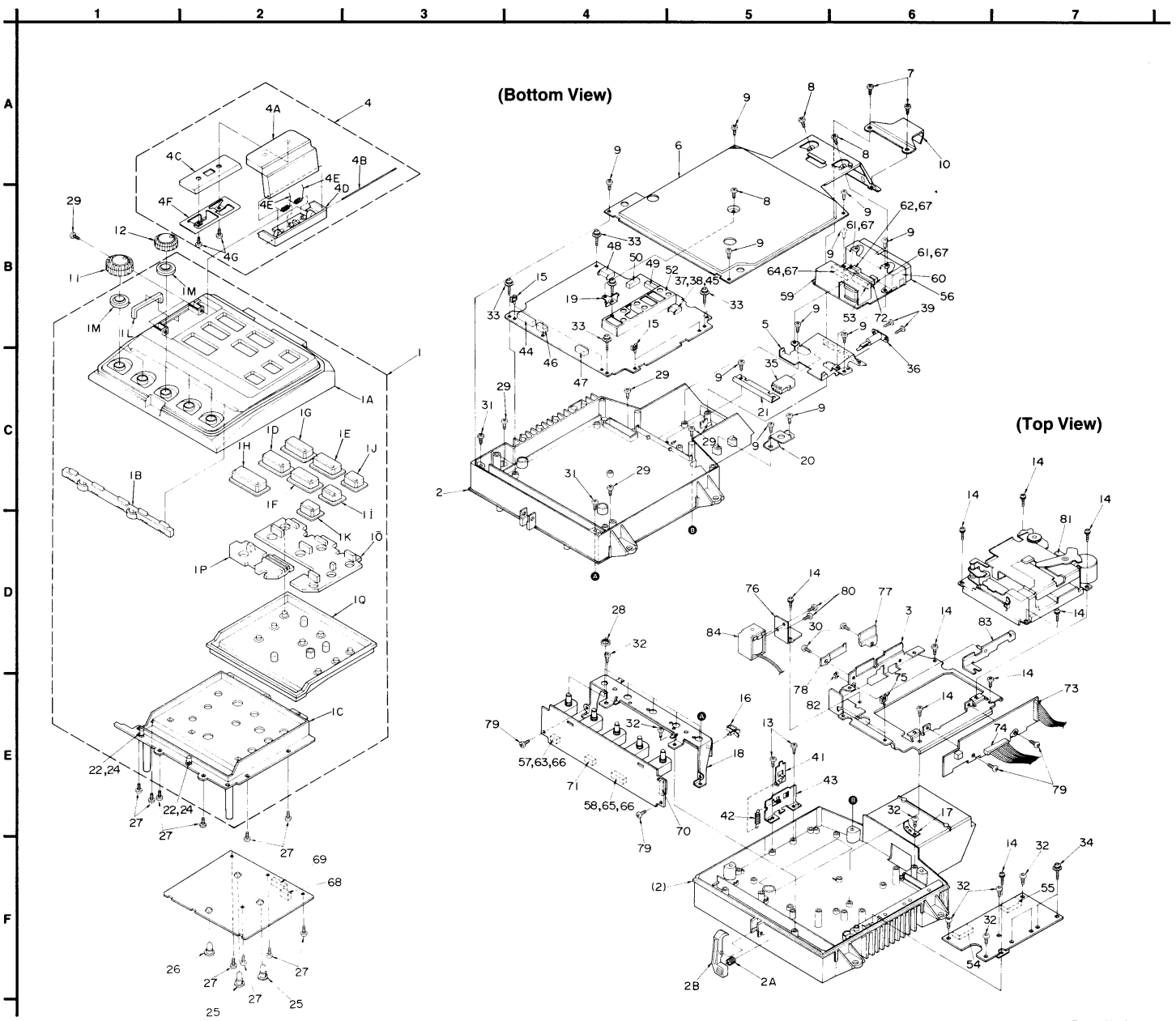
Ref. No.	Part No.	Part Name & Description	Remarks
80	XYN26+C4	SCREW	
81	RJP12G28ZA	PLUG(12P)	
82	XUC2FY-S	E-RING	
83	RML0109	LEVER	
84	RSJ0009	PLUNGER	

CABINET PARTS LOCATION



CABINET PARTS LOCATION

Ref. No.	Part No.	Part Name & Description	Remarks
80	XYN26+C4	SCREW	
81	RJP12G28ZA	PLUG (12P)	
82	XUC2FY-S	E-RING	
83	RML0109	LEVER	
84	RSJ0009	PLUNGER	



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PRINTING THE ELECTRONIC DOCUMENT

The PDF of this service manual is not designed to be printed from cover to cover. The pages vary in size, and must therefore be printed in sections based on page dimensions.

NON-SCHEMATIC PAGES

Data that does NOT INCLUDE schematic diagrams are formatted to 8.5 x 11 inches and can be printed on standard letter-size and/or A4-sized paper.

SCHEMATIC DIAGRAMS

The schematic diagram pages are provided in two ways, full size and tiled. The full-sized schematic diagrams are formatted on paper sizes between 8.5" x 11" and 18" x 30" depending upon each individual diagram size. Those diagrams that are LARGER than 11" x 17" in full-size mode have been tiled for your convience and can be printed on standard 11" x 17" (tabloid-size) paper, and reassembled.

TO PRINT FULL SIZE SCHEMATIC DIAGRAMS

If you have access to a large paper plotter or printer capable of outputting the full-sized diagrams, output as follows:

1) Note the page size(s) of the schematics you want to output as indicated in the middle window at the bottom of the viewing screen.

2) Go to the File menu and select Print Set-up. Choose the printer name and driver for your large format printer. Confirm that the printer settings are set to output the indicated page size or larger.

3) Close the Print Set Up screen and return to the File menu. Select "Print..." Input the page number of the schematic(s) you want to print in the print range window. Choose OK.

TO PRINT TILED VERSION OF SCHEMATICS

Schematic pages that are larger than 11" x 17" full-size are provided in a 11" x 17" printable tiled format near the end of the document. These can be printed to tabloid-sized paper and assembled to full-size for easy viewing.

If you have access to a printer capable of outputting the tabloid size (11" x 17") paper, then output the tiled version of the diagram as follows:

1) Note the page number(s) of the schematics you want to output as indicated in the middle window at the bottom of the viewing screen.

2) Go to the File menu and select Print Set-up. Choose the printer name and driver for your printer. Confirm that the plotter settings are set to output 11" x 17", or tabloid size paper in landscape (▭) mode.

3) Close the Print Set Up screen and return to the File menu. Select "Print..." Input the page number of the schematic(s) you want to print in the print range window. Choose OK.

TO PRINT SPECIFIC SECTIONS OF A SCHEMATIC

To print just a particular section of a PDF, rather than a full page, access the Graphics Select tool in the Acrobat Reader tool bar.

1) To view the Graphics Select Tool, press and HOLD the mouse button over the Text Select Tool which looks like:
This tool will expand to reveal to additional tools.
Choose the Graphics Select tool by placing the cursor over the button on of the far right that looks like:

2) After selecting the Graphics Select Tool, place your cursor in the document window and the cursor will change to a plus (+) symbol. Click and drag the cursor over the area you want to print. When you release the mouse button, a marquee (or dotted lined box) will be displayed outlining the area you selected.

3) With the marquee in place, go to the file menu and select the "Print..." option. When the print window appears, choose the option under the section called "Print Range" which says "Selected Graphic".

Select OK and the output will print only the area that you outlined with the marquee.